

Digital Inverter 4 series

Outdoor Unit

RAV-SM564ATP-E

RAV-SM564ATJP-E

RAV-SM804ATP-E

RAV-SM804ATJP-E

RAV-SM1104ATP-E

RAV-SM1104ATJP-E

RAV-SM1404ATP-E

RAV-SM1404ATJP-E

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1. Line up

1-1. Single Line-up

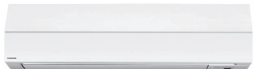
1-2. Twin Line-up

1-1. Single Line-up

Outdoor unit line-up

Model name		RAV-SM564AT(J)P-E	RAV-SM804AT(J)P-E	RAV-SM1104AT(J)P-E	RAV-SM1404AT(J)P-E
Appearance					

Indoor unit line-up

Capacity type			56	80	110	140
(HP equivalent)			2.0	3.0	4.0	5.0
4-way Cassette	RAV-SM**4UTP-E					
Compact 4-way Cassette (600*600)	RAV-SM**4MUT-E					
Ducted	RAV-SM**6BT-E					
Slim Duct	RAV-SM**4SDT-E					
Under Ceiling	RAV-SM**7CTP-E					
High Wall	RAV-SM**6KRT-E					

1-2. Twin Line-up

Outdoor unit line-up (Twin system)

Model name	RAV-SM1104AT(J)P-E	RAV-SM1404AT(J)P-E
Appearance		

Indoor unit line-up

Capacity type			56	80	
(HP equivalent)			2.0	3.0	
Indoor unit		unit			Outdoor unit
4-way Cassette	RAV-SM564UTP-E	2			RAV-SM1104AT(J)P-E
Compact 4-way Cassette (600*600)	RAV-SM564MUT-E	2			
Ducted	RAV-SM566BT-E	2			
Slim Duct	RAV-SM564SDT-E	2			
Under Ceiling	RAV-SM567CTP-E	2			
High wall	RAV-SM566KRT-E	2			RAV-SM1404AT(J)P-E
4-way Cassette	RAV-SM804UTP-E	2			
Ducted	RAV-SM806BT-E	2			
Under Ceiling	RAV-SM807CTP-E	2			
High wall	RAV-SM806KRT-E	2			

2. Indoor Unit

2-2. 4-way Cassette Type (P)

2-2-1. Specifications

2-2-2. Dimension

2-2-3. Wiring diagrams

2-2-4. Sensible capacity table

2-2-5. Part load performance

2-2-6. Air throw distance chart

2-2-7. Sound characteristics (NC curve)

2-2-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	564UTP-E	804UTP-E	1104UTP-E	1404UTP-E
	Outdoor unit		RAV-SM	564AT(J)P-E	804AT(J)P-E	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	5.0 (1.5 – 5.6)	6.7 (1.5 – 8.0)	10.0 (3.0 – 11.2)	12.0 (3.0 – 13.2)
Heating capacity			(kW)	5.3 (1.5 – 6.3)	7.7 (1.5 – 9.0)	11.2 (3.0 – 13.0)	12.8 (3.0 – 16.0)
Power supply				1 phase 220 – 240V/50Hz, 1phase 220V/60Hz			
Electrical characteristics	Cooling	Running current	(A)	7.31 – 6.70	10.40 – 9.54	14.60 – 13.39	20.74 – 19.02
		Power consumption	(kW)	1.56	2.22	3.02	3.57
		Power factor	(%)	97	97	94	94
		EER		3.21	3.02	3.31	2.80
	Heating	Running current	(A)	6.37 – 5.84	9.98 – 9.15	14.17 – 12.99	16.44 – 15.07
		Power consumption	(kW)	1.36	2.13	2.93	3.40
		Power factor	(%)	97	97	94	94
		COP		3.90	3.62	3.82	3.76
	Maximum current		(A)	12.30	14.30	20.80	22.80
Appearance	Main unit		Zinc hot dipping steel plate				
	Ceiling panel (Sold separately)	Model	RBC-U31PG (W, WS)-E, RBC-U31PGS (W, WS)-E				
		Panel color	W: Moon-white (2.5GY 9.0/0.5), WS: Stripe-white (2.5GY 9.0/0.5, (Gray: 8B 3/0.3))				
Outer dimension	Main unit	Height	(mm)	256		319	
		Width	(mm)	840			
		Depth	(mm)	840			
	Ceiling panel (Sold separately)	Height	(mm)	30			
		Width	(mm)	950			
		Depth	(mm)	950			
Total weight	Main unit		(kg)	20		24	
	Ceiling panel (Sold separately)		(kg)	4.2			
Heat exchanger				Finned tube			
Fan unit	Fan		Turbo fan				
	Standard air flow	H/M/L	(m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5	33.5/24.0/19.5	35.0/24.0/20.5
	Motor		(W)	14	20	68	72
Air filter				Standard filter attached (Long life filter)			
Controller (Sold separately)				RBC-AMT32E, AMS41E, AS21E2, AX31U (W, WS)-E, TCB-AX21E2			
Sound pressure level		H/M/L	(dB•A)	32/29/28	35/31/28	43/38/33	44/38/34
Sound power level		H/M/L	(dB•A)	47/44/43	50/46/43	58/53/48	59/53/49
Connecting pipe		Gas side	(mm)	12.7	15.9	15.9	15.9
		Liquid side	(mm)	6.4	9.5	9.5	9.5
		Drain port	(mm)	VP25			

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

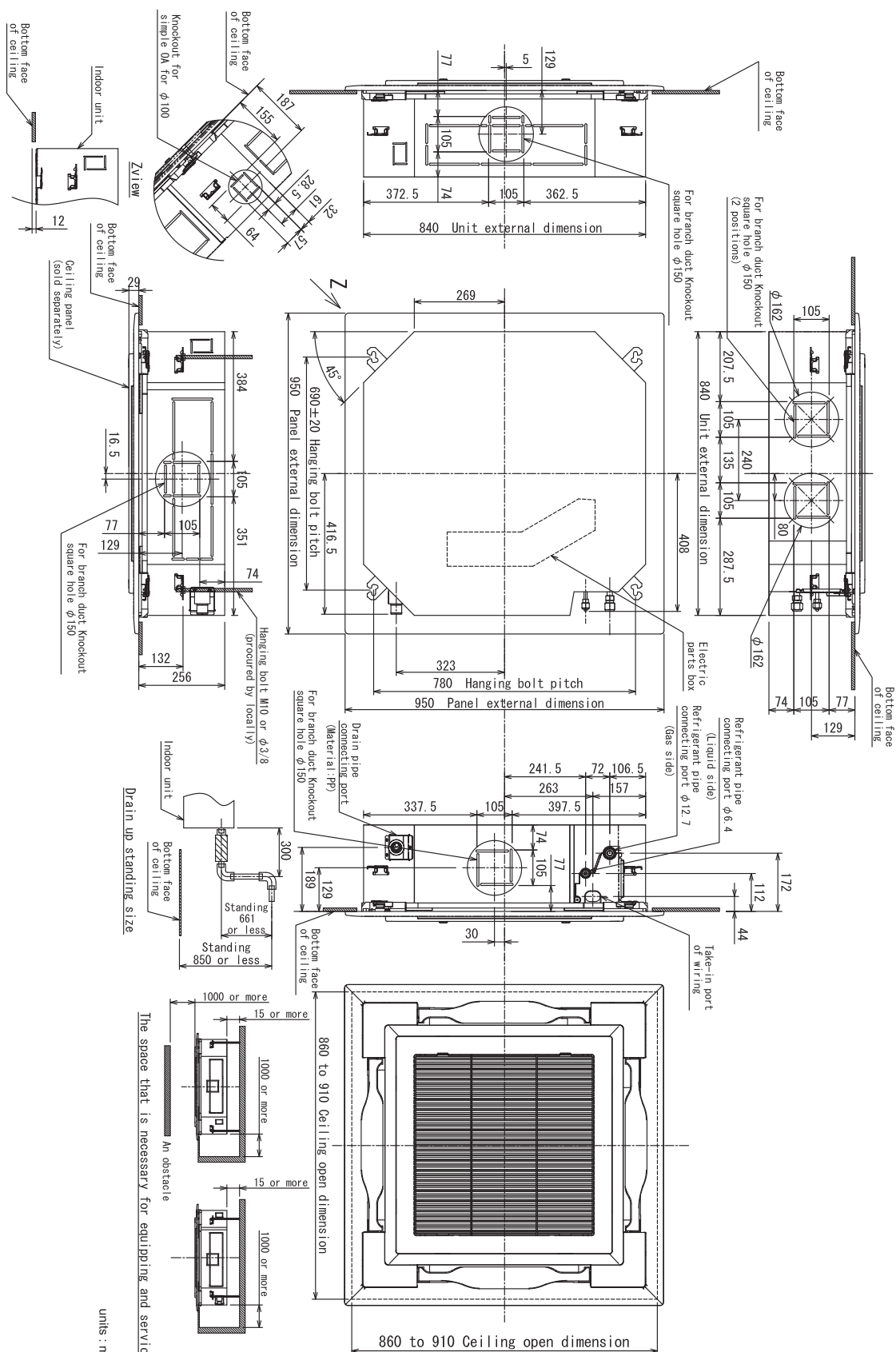
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

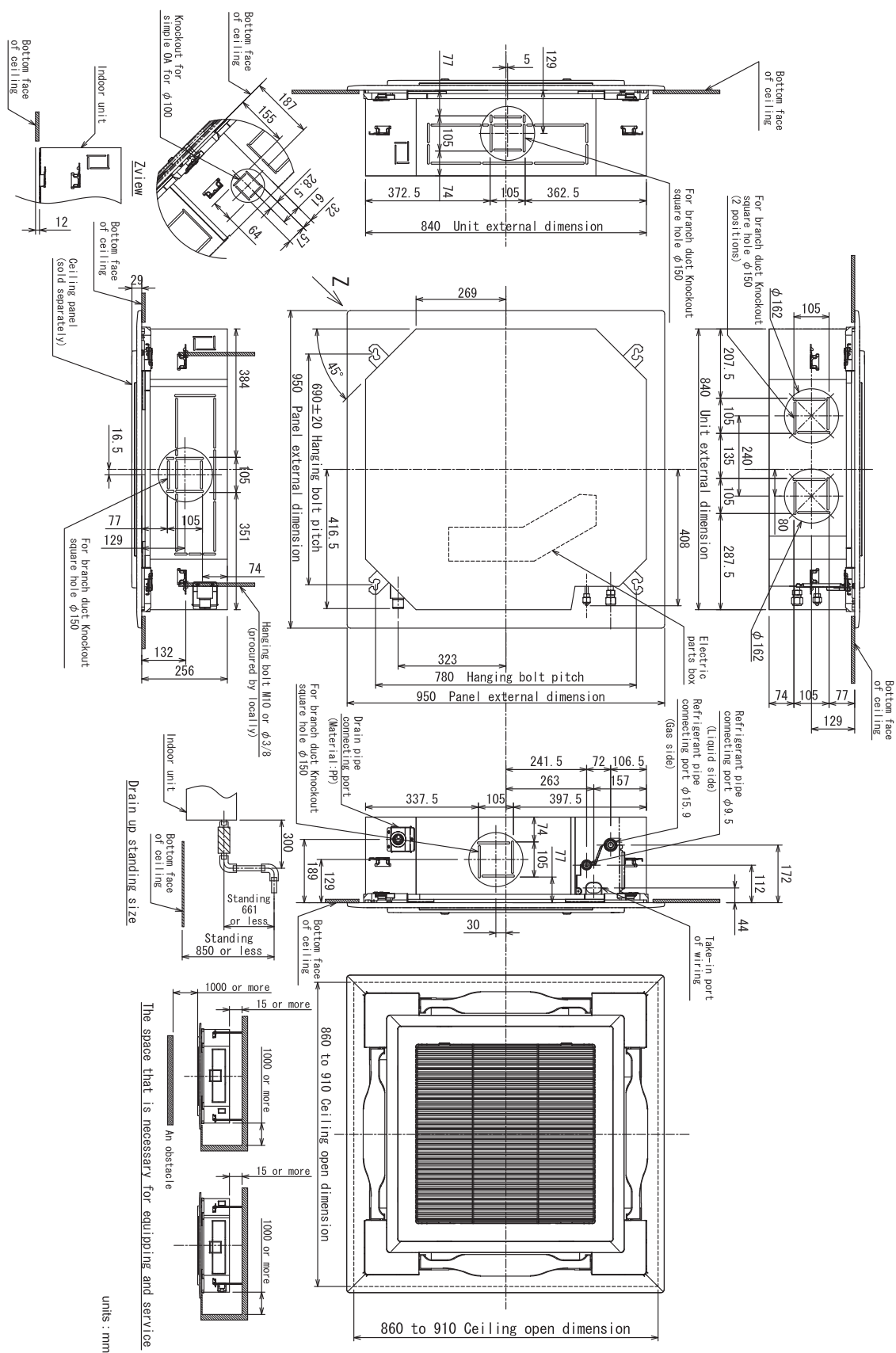
<Twin type>

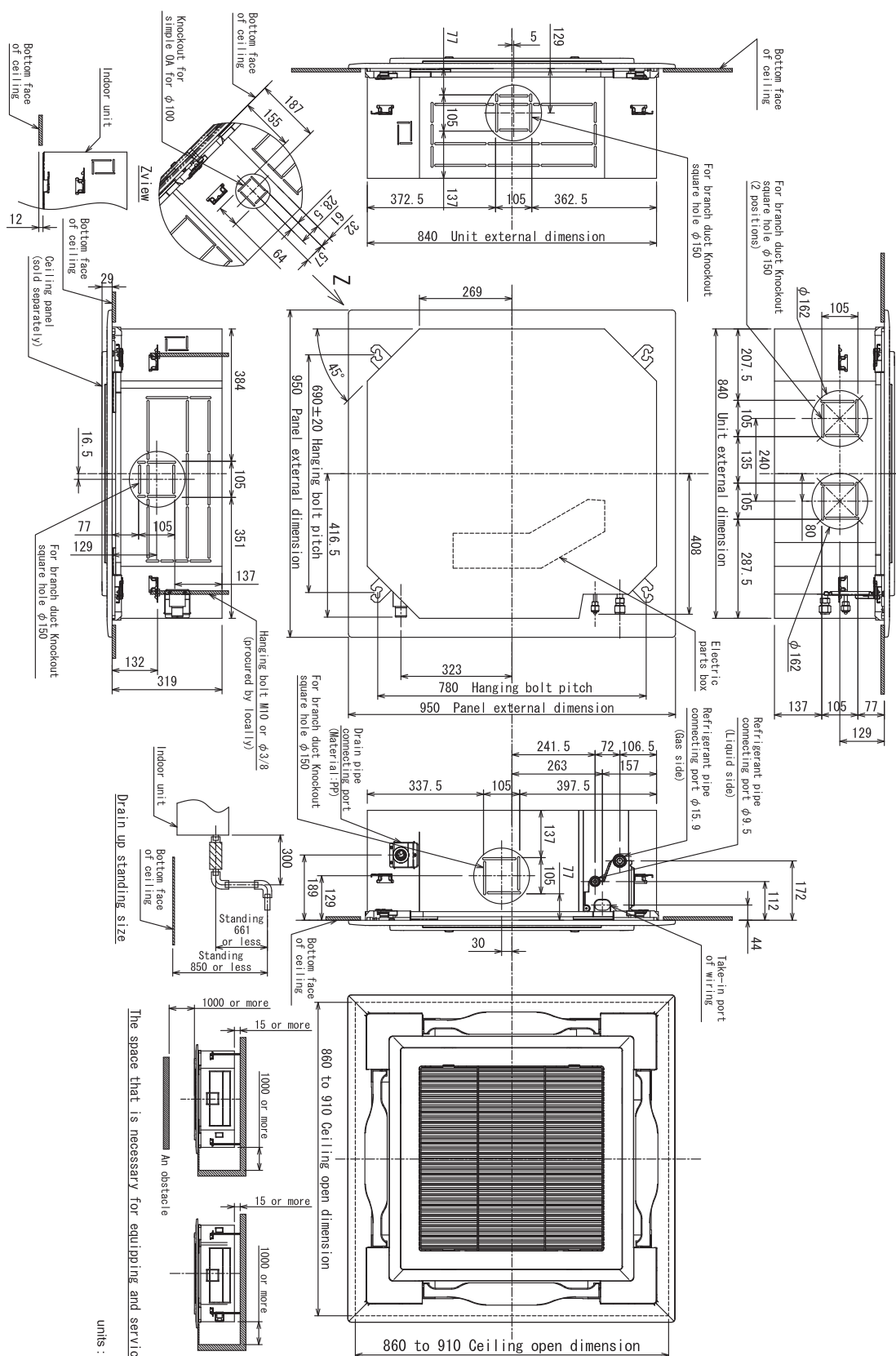
Model	Indoor unit 1		RAV-SM	564UTP-E	804UTP-E
	Indoor unit 2		RAV-SM	564UTP-E	804UTP-E
	Outdoor unit		RAV-SM	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	10.0 (3.0 – 11.2)	12.0 (3.0 – 13.2)
Heating capacity			(kW)	11.2 (3.0 – 13.0)	12.8 (3.0 – 16.0)
Power supply			1 phase 220 – 240V/50Hz, 1phase 220/60Hz		
Electrical characteristics	Cooling	Running current	(A)	14.60 – 13.39	20.74 – 19.02
		Power consumption	(kW)	3.02	4.29
		Power factor	(%)	94	94
		EER		3.31	2.80
	Heating	Running current	(A)	14.17 – 12.99	16.44 – 15.07
		Power consumption	(kW)	2.93	3.40
		Power factor	(%)	94	94
		COP		3.82	3.76
Maximum current		(A)	20.8	22.8	
Indoor unit					
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L	(m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5
	Motor		(W)	14	20
Sound pressure level		H/M/L	(dB•A)	32/29/28	35/31/28
Sound power level		H/M/L	(dB•A)	47/44/43	50/46/43
Outdoor unit					
Refrigerant pipe	Standard length		(m)	7.5	
	Min. length		(m)	5	
	Max. total length		(m)	50	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower	(m)	30	30
		Outdoor higher	(m)	30	30
Fan unit	Fan		Propeller fan		
	Standard air flow		(m³/min.)	68	70
	Motor		(W)	100	100
Connecting pipe	Gas side	Main	(mm)	15.9	15.9
		Sub	(mm)	12.7	15.9
	Liquid side	Main	(mm)	9.5	9.5
		Sub	(mm)	6.4	9.5
Sound pressure level		Cooling/Heating	(dB•A)	53/54	54/55
Sound power level		Cooling/Heating	(dB•A)	70/71	70/71

2-2-2. Dimension

RAV-SM564UTP-E

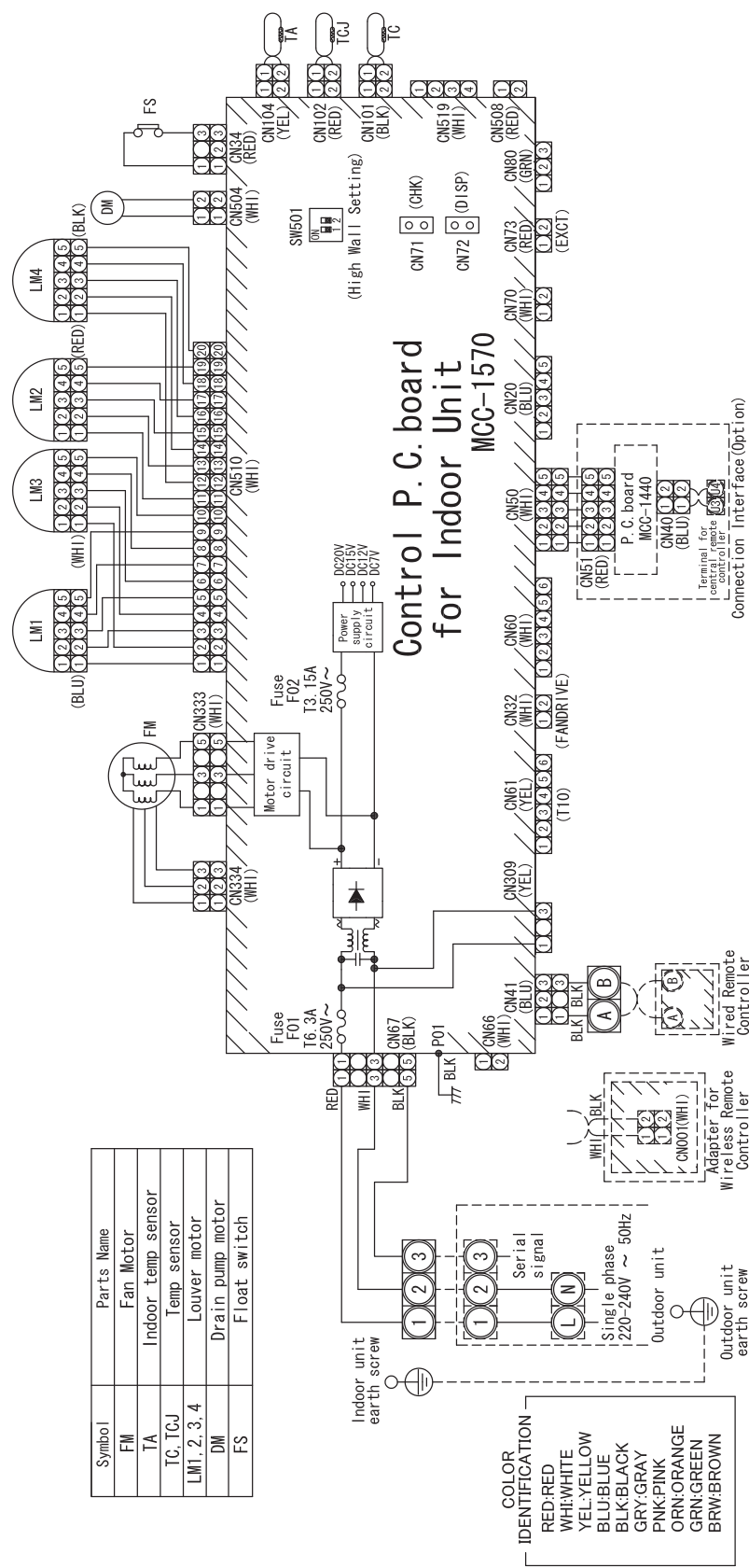
RAV-SM804UTP-E



RAV-SM1104UTP-E/RAV-SM1404UTP-E

2-2-3. Wiring diagrams

RAV-SM564UTP-E/RAV-SM804UTP-E/RAV-SM1104UTP-E/RAV-SM1404UTP-E



2-2-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***UTP-E

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.6	4.9	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	5.9	4.5	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.1	5.5	4.2	5.7	4.3	5.8	4.4	6.2	4.7	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.9	5.3	4.0	5.5	4.2	5.6	4.3	5.8	4.4	6.1	4.7	6.4	4.9
	16.0	4.6	3.5	4.8	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.3	5.8	4.4	6.1	4.6	6.4	4.9
	18.0	4.6	3.5	4.8	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.6	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.5	4.2	5.7	4.3	6.0	4.6	6.3	4.8
	21.0	4.5	3.4	4.7	3.6	5.0	3.8	5.2	3.9	5.3	4.1	5.5	4.2	5.6	4.3	6.0	4.5	6.3	4.8
	23.0	4.5	3.4	4.7	3.6	4.9	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.5	6.2	4.7
	25.0	4.4	3.4	4.6	3.5	4.9	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.5	4.2	5.9	4.4	6.1	4.7
	27.0	4.4	3.3	4.6	3.5	4.8	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.2	5.8	4.4	6.0	4.6
	29.0	4.3	3.3	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.9	5.2	4.0	5.4	4.1	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.3	5.9	4.5
	33.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.8	5.1	3.9	5.2	4.0	5.5	4.2	5.8	4.4
	35.0	4.1	3.1	4.3	3.3	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.1	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.1	5.6	4.2
	39.0	3.9	3.0	4.2	3.2	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.7	4.9	3.8	5.2	4.0	5.5	4.2

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
804	10.0	6.3	4.7	6.6	4.9	6.9	5.2	7.2	5.4	7.4	5.6	7.7	5.7	7.9	5.9	8.3	6.2	8.7	6.5
	12.0	6.3	4.7	6.6	4.9	6.9	5.2	7.1	5.3	7.4	5.5	7.6	5.7	7.8	5.8	8.3	6.2	8.7	6.5
	14.0	6.2	4.6	6.5	4.9	6.9	5.1	7.1	5.3	7.3	5.5	7.6	5.6	7.8	5.8	8.2	6.1	8.6	6.4
	16.0	6.2	4.6	6.5	4.8	6.8	5.1	7.1	5.3	7.3	5.4	7.5	5.6	7.7	5.8	8.2	6.1	8.6	6.4
	18.0	6.1	4.6	6.4	4.8	6.8	5.0	7.0	5.2	7.2	5.4	7.5	5.6	7.7	5.7	8.1	6.1	8.5	6.3
	20.0	6.1	4.5	6.4	4.8	6.7	5.0	6.9	5.2	7.2	5.4	7.4	5.5	7.6	5.7	8.1	6.0	8.4	6.3
	21.0	6.0	4.5	6.4	4.7	6.7	5.0	6.9	5.2	7.1	5.3	7.4	5.5	7.6	5.6	8.0	6.0	8.4	6.3
	23.0	6.0	4.5	6.3	4.7	6.6	4.9	6.8	5.1	7.1	5.3	7.3	5.4	7.5	5.6	7.9	5.9	8.3	6.2
	25.0	5.9	4.4	6.2	4.6	6.5	4.9	6.8	5.0	7.0	5.2	7.2	5.4	7.4	5.5	7.8	5.9	8.2	6.1
	27.0	5.8	4.4	6.1	4.6	6.5	4.8	6.7	5.0	6.9	5.2	7.1	5.3	7.3	5.5	7.8	5.8	8.1	6.0
	29.0	5.8	4.3	6.1	4.5	6.4	4.8	6.6	4.9	6.8	5.1	7.0	5.2	7.2	5.4	7.6	5.7	8.0	6.0
	31.0	5.7	4.2	6.0	4.5	6.3	4.7	6.5	4.9	6.7	5.0	6.9	5.2	7.1	5.3	7.5	5.6	7.9	5.9
	33.0	5.6	4.2	5.9	4.4	6.2	4.6	6.4	4.8	6.6	4.9	6.8	5.1	7.0	5.2	7.4	5.5	7.8	5.8
	35.0	5.5	4.1	5.8	4.3	6.1	4.5	6.3	4.7	6.5	4.9	6.7	5.0	6.9	5.1	7.3	5.4	7.6	5.7
	37.0	5.4	4.0	5.7	4.2	6.0	4.4	6.2	4.6	6.4	4.8	6.6	4.9	6.8	5.0	7.2	5.3	7.5	5.6
	39.0	5.3	3.9	5.6	4.2	5.8	4.4	6.0	4.5	6.3	4.7	6.4	4.8	6.6	4.9	7.0	5.2	7.3	5.5

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1104	10.0	9.4	7.5	9.9	7.9	10.4	8.3	10.7	8.6	11.1	8.9	11.4	9.1	11.8	9.4	12.5	10.0	13.0	10.4
	12.0	9.3	7.5	9.8	7.9	10.3	8.2	10.7	8.5	11.0	8.8	11.4	9.1	11.7	9.3	12.4	9.9	12.9	10.4
	14.0	9.3	7.4	9.8	7.8	10.2	8.2	10.6	8.5	11.0	8.8	11.3	9.0	11.6	9.3	12.3	9.8	12.9	10.3
	16.0	9.2	7.4	9.7	7.8	10.2	8.1	10.5	8.4	10.9	8.7	11.2	9.0	11.5	9.2	12.2	9.8	12.8	10.2
	18.0	9.1	7.3	9.6	7.7	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.9	11.4	9.2	12.1	9.7	12.7	10.1
	20.0	9.1	7.2	9.5	7.6	10.0	8.0	10.4	8.3	10.7	8.6	11.0	8.8	11.3	9.1	12.0	9.6	12.6	10.1
	21.0	9.0	7.2	9.5	7.6	10.0	8.0	10.3	8.3	10.7	8.5	11.0	8.8	11.3	9.0	12.0	9.6	12.5	10.0
	23.0	8.9	7.1	9.4	7.5	9.9	7.9	10.2	8.2	10.6	8.4	10.9	8.7	11.2	8.9	11.8	9.5	12.4	9.9
	25.0	8.8	7.1	9.3	7.4	9.8	7.8	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.8	11.7	9.4	12.2	9.8
	27.0	8.7	7.0	9.2	7.3	9.6	7.7	10.0	8.0	10.3	8.3	10.6	8.5	10.9	8.7	11.6	9.3	12.1	9.7
	29.0	8.6	6.9	9.1	7.2	9.5	7.6	9.8	7.9	10.2	8.1	10.5	8.4	10.8	8.6	11.4	9.1	11.9	9.6
	31.0	8.5	6.8	8.9	7.1	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.3	10.6	8.5	11.3	9.0	11.8	9.4
	33.0	8.4	6.7	8.8	7.0	9.2	7.4	9.6	7.6	9.9	7.9	10.2	8.1	10.5	8.4	11.1	8.9	11.6	9.3
	35.0	8.2	6.6	8.6	6.9	9.1	7.3	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.2	10.9	8.7	11.4	9.1
	37.0	8.1	6.4	8.5	6.8	8.9	7.1	9.2	7.4	9.5	7.6	9.8	7.8	10.1	8.1	10.7	8.5	11.2	8.9
	39.0	7.9	6.3	8.3	6.6	8.7	7.0	9.0	7.2	9.3	7.5	9.6	7.7	9.9	7.9	10.5	8.4	10.9	8.8

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1404	10.0	11.3	8.7	11.9	9.2	12.4	9.6	12.9	10.0	13.3	10.3	13.7	10.6	14.1	10.9	14.9	11.6	15.6	12.1
	12.0	11.2	8.7	11.8	9.1	12.4	9.6	12.8	9.9	13.2	10.3	13.6	10.6	14.0	10.9	14.8	11.5	15.5	12

2-2-5. Part load performance

Combination

Indoor unit : RAV-SM564UTP-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	260	1500	260
RATING	5000	1560	5300	1360

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4180	3710	3240	2780	2320	1850	1390	1390	1390
	W	1710	1360	1090	870	680	530	390	280	280	280
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1560	1250	1000	790	630	480	360	260	260	260
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1400	1120	900	710	560	430	320	230	230	230
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1260	1000	800	640	510	390	290	210	210	210
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1130	900	720	570	450	350	260	190	190	190

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1440	1230	1020	830	660	510	390	290	280	280
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1390	1180	990	800	640	500	370	280	270	270
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1360	1160	970	790	620	490	370	270	260	260
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1170	1000	830	680	540	420	310	230	220	220
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1150	980	820	670	530	410	310	230	220	220
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1140	970	810	660	520	410	310	230	220	220
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1110	950	790	640	510	400	300	220	210	210
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1100	940	780	640	510	390	300	220	210	210
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1060	910	760	610	490	380	290	210	200	200
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	950	810	680	550	440	340	260	190	180	180

Combination

Indoor unit : RAV-SM804UTP-E

Outdoor unit : RAV-SM804AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	260	1500	260
RATING	6700	2220	7700	2130

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6330	5690	5060	4430	3800	3160	2530	1900	1420	1420
	W	2420	1970	1550	1190	890	660	500	370	280	280
35	Q	6700	6030	5360	4690	4020	3350	2680	2010	1500	1500
	W	2220	1810	1420	1090	820	610	460	340	260	260
30	Q	7080	6370	5670	4960	4250	3540	2830	2130	1590	1590
	W	2020	1650	1300	990	750	550	420	310	240	240
25	Q	7360	6620	5890	5150	4420	3680	2950	2210	1650	1650
	W	1830	1490	1170	900	680	500	380	280	220	220
20	Q	7470	6720	5980	5230	4480	3740	2990	2240	1670	1670
	W	1650	1340	1050	810	610	450	340	250	190	190

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4560	3640	2730	1820	1780
	W	2320	1940	1590	1280	1000	760	560	410	290	280
10	Q	8260	7440	6610	5780	4960	4130	3310	2470	1650	1610
	W	2210	1860	1520	1220	950	730	540	400	280	270
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	2130	1790	1460	1170	920	700	520	380	270	260
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1180	1160
	W	1830	1530	1260	1010	790	600	440	330	230	220
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	1800	1510	1240	990	780	590	440	320	230	220
0	Q	5710	5140	4570	4000	3430	2860	2290	1710	1140	1110
	W	1790	1500	1230	980	770	590	430	320	230	220
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	1740	1460	1200	960	750	570	420	310	220	210
-7	Q	5420	4880	4340	3800	3250	2710	2170	1620	1080	1060
	W	1730	1450	1190	950	740	570	420	310	220	210
-10	Q	5010	4510	4010	3500	3000	2510	2000	1500	1000	980
	W	1660	1390	1140	920	720	550	400	300	210	200
-15	Q	3850	3470	3080	2700	2310	1930	1540	1150	770	750
	W	1490	1240	1020	820	640	490	360	270	190	180

Combination

Indoor unit : RAV-SM1104UTP-E

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3020	11200	2930

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3280	2620	2130	1720	1380	1070	840	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3020	2410	1960	1580	1260	980	770	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2740	2190	1780	1440	1150	890	700	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2490	1990	1620	1310	1040	810	640	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2250	1800	1460	1180	940	730	580	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3590	3590
	W	3220	2760	2320	1890	1510	1190	920	710	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3260	3260
	W	3060	2630	2210	1800	1440	1130	870	680	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2930	2520	2120	1730	1380	1080	840	650	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2510	2160	1820	1480	1180	930	720	560	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2480	2130	1790	1460	1170	910	710	550	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2110	1770	1450	1160	910	700	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2400	2060	1730	1410	1130	880	680	530	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2110	2110
	W	2370	2040	1710	1400	1120	880	680	530	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1650	1350	1180	840	650	510	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2040	1760	1480	1200	960	750	580	450	420	420

Combination

Indoor unit : RAV-SM1404UTP-E

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12000	4290	12800	3400

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11370	10230	9100	7960	6820	5680	4550	3410	2840	2840
	W	4670	3770	2960	2270	1730	1300	990	750	650	650
35	Q	12000	10800	9600	8400	7200	6000	4800	3600	3000	3000
	W	4290	3470	2720	2090	1590	1200	910	690	600	600
30	Q	12580	11320	10060	8810	7550	6290	5040	3770	3140	3140
	W	3890	3150	2470	1900	1440	1090	830	630	540	540
25	Q	13050	11750	10450	9140	7830	6530	5230	3920	3260	3260
	W	3540	2860	2240	1730	1310	990	750	570	500	500
20	Q	13410	12070	10730	9390	8050	6700	5370	4020	3350	3350
	W	3200	2590	2030	1560	1180	890	680	510	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3730	3140	2610	2150	1740	1380	1060	800	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3550	2990	2490	2050	1650	1310	1010	760	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3400	2860	2380	1960	1580	1250	960	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2920	2450	2040	1680	1360	1080	830	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2880	2420	2020	1660	1340	1060	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2850	2400	2000	1640	1330	1050	810	610	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2780	2340	1950	1600	1290	1030	790	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2750	2320	1930	1590	1280	1020	780	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2650	2230	1860	1530	1230	980	750	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2370	1990	1660	1370	1100	870	670	510	420	420

Combination

Indoor unit : RAV-SM564UTP-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3020	11200	2930

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3280	2620	2130	1720	1380	1070	840	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3020	2410	1960	1580	1260	980	770	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2740	2190	1780	1440	1150	890	700	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2490	1990	1620	1310	1040	810	640	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2250	1800	1460	1180	940	730	580	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3590	3590
	W	3220	2760	2320	1890	1510	1190	920	710	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3260	3260
	W	3060	2630	2210	1800	1440	1130	870	680	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2930	2520	2120	1730	1380	1080	840	650	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2510	2160	1820	1480	1180	930	720	560	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2480	2130	1790	1460	1170	910	710	550	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2110	1770	1450	1160	910	700	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2400	2060	1730	1410	1130	880	680	530	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2110	2110
	W	2370	2040	1710	1400	1120	880	680	530	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1650	1350	1180	840	650	510	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2040	1760	1480	1200	960	750	580	450	420	420

Combination

Indoor unit : RAV-SM804UTP-E x 2 (Twin)

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12000	4290	12800	3400

Q: Capacity in W
W: Power Consumption in W

Cooling

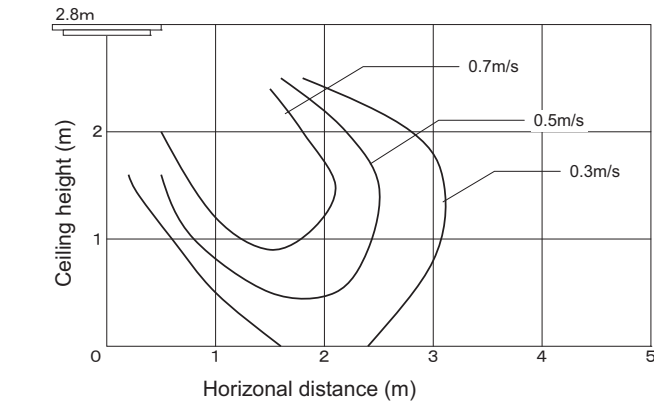
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11370	10230	9100	7960	6820	5680	4550	3410	2840	2840
	W	4670	3770	2960	2270	1730	1300	990	750	650	650
35	Q	12000	10800	9600	8400	7200	6000	4800	3600	3000	3000
	W	4290	3470	2720	2090	1590	1200	910	690	600	600
30	Q	12580	11320	10060	8810	7550	6290	5040	3770	3140	3140
	W	3890	3150	2470	1900	1440	1090	830	630	540	540
25	Q	13050	11750	10450	9140	7830	6530	5230	3920	3260	3260
	W	3540	2860	2240	1730	1310	990	750	570	500	500
20	Q	13410	12070	10730	9390	8050	6700	5370	4020	3350	3350
	W	3200	2590	2030	1560	1180	890	680	510	450	450

Heating

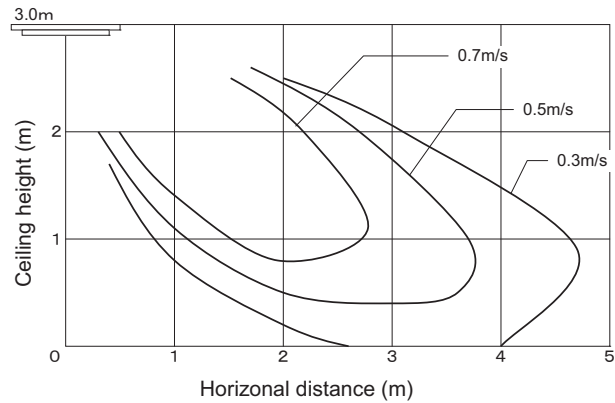
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3730	3140	2610	2150	1740	1380	1060	800	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3550	2990	2490	2050	1650	1310	1010	760	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3400	2860	2380	1960	1580	1250	960	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2920	2450	2040	1680	1360	1080	830	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2880	2420	2020	1660	1340	1060	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2850	2400	2000	1640	1330	1050	810	610	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2780	2340	1950	1600	1290	1030	790	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2750	2320	1930	1590	1280	1020	780	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2650	2230	1860	1530	1230	980	750	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2370	1990	1660	1370	1100	870	670	510	420	420

2-2-6. Air throw distance chart

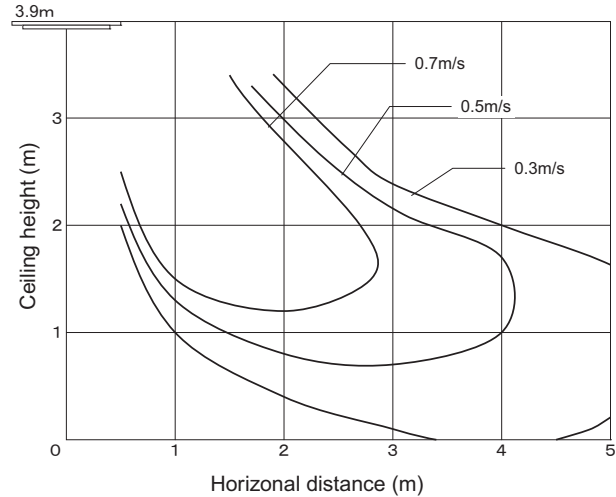
RAV-SM564UTP-E



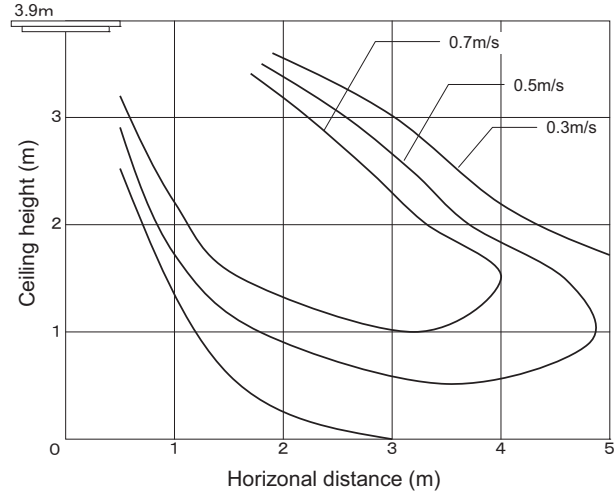
RAV-SM804UTP-E



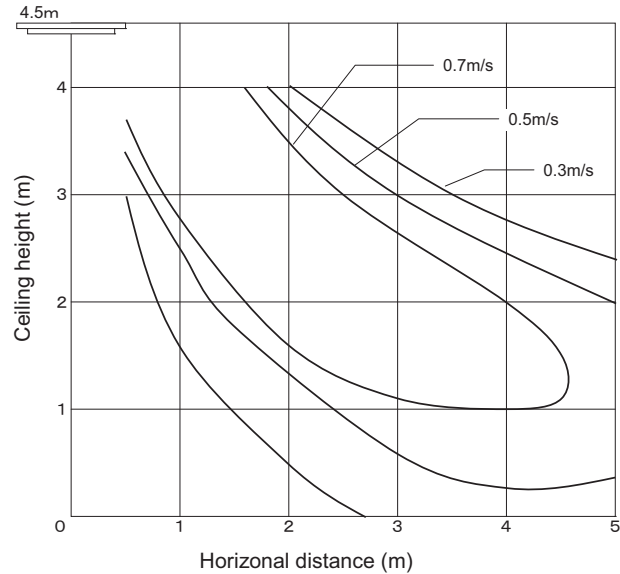
RAV-SM1104UTP-E



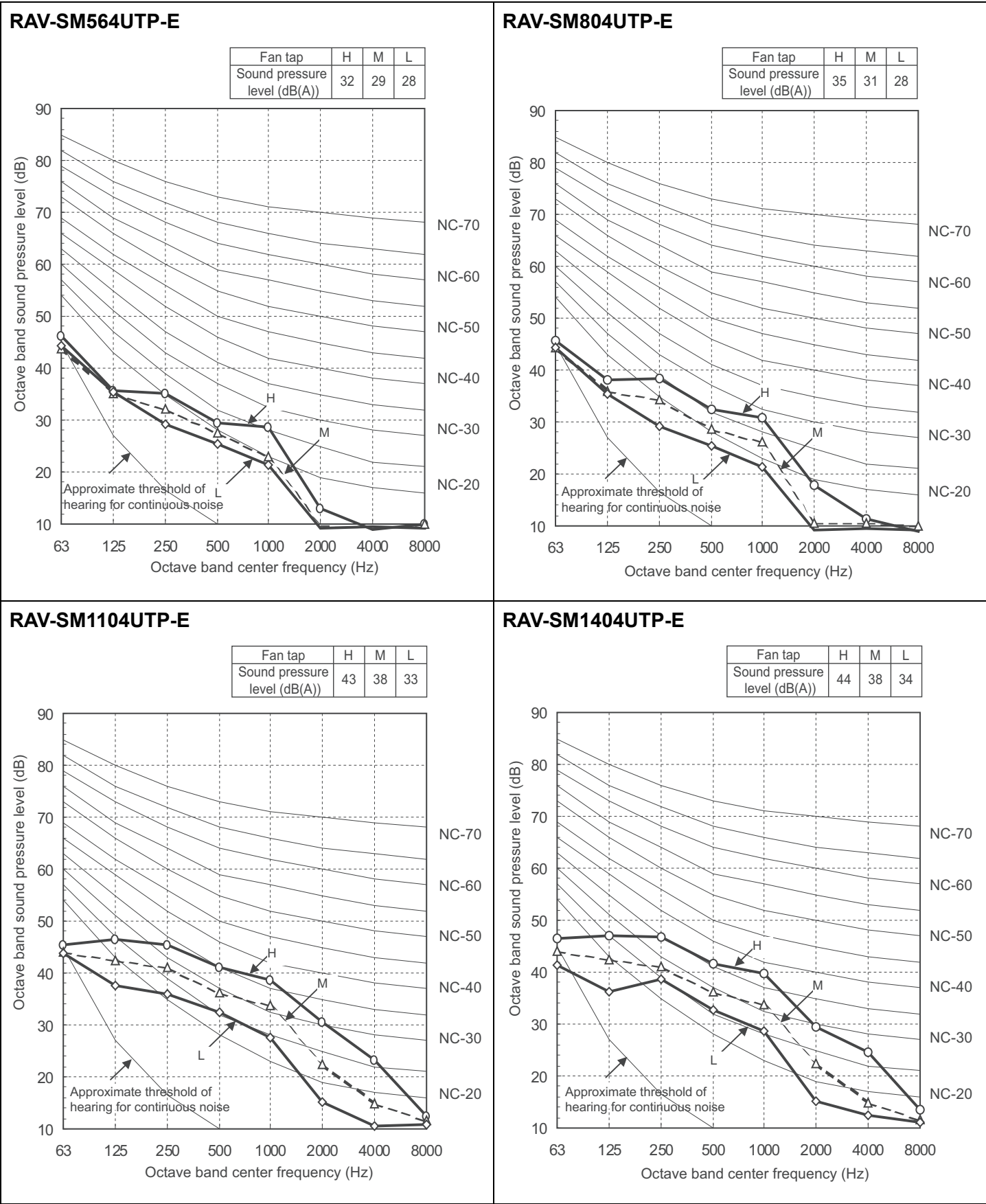
RAV-SM1404UTP-E



RAV-SM1104UTP-E, RAV-SM1404UTP-E
(High ceiling)



2-2-7. Sound characteristics (NC curve)



2-3. Compact 4-way Cassette Type

2-3-1. Specifications

2-3-2. Dimension

2-3-3. Wiring diagrams

2-3-4. Sensible capacity table

2-3-5. Part load performance

2-3-6. Air throw distance chart

2-3-7. Sound characteristics (NC curve)

2-3-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	564MUT-E
	Outdoor unit		RAV-SM	564AT(J)P-E
Cooling capacity			(kW)	5.0 (1.5 - 5.6)
Heating capacity			(kW)	5.3 (1.5 - 6.3)
Power supply			1 phase 220 – 240V/50Hz, 1phase 220V/60Hz	
Electrical characteristics	Cooling	Running current	(A)	7.73 – 7.09
		Power consumption	(kW)	1.65
		Power factor	(%)	97
		EER		3.03
	Heating	Running current	(A)	7.12 – 6.53
		Power consumption	(kW)	1.52
		Power factor	(%)	97
		COP		3.49
Maximum current			(A)	12.50
Appearance	Main unit		Zinc hot dipping steel plate	
	Ceiling panel (Sold separately)	Model	RBC-UM11PG (W)-E	
		Panel color	Moon-white (Muncel 2.5GY 9.0/0.5)	
Outer dimension	Main unit	Height	(mm)	268
		Width	(mm)	575
		Depth	(mm)	575
	Ceiling panel (Sold separately)	Height	(mm)	27
		Width	(mm)	700
		Depth	(mm)	700
Total weight	Main unit		(kg)	16.0
	Ceiling panel (Sold separately)		(kg)	3.0
Heat exchanger			Finned tube	
Fan unit	Fan		Turbo fan	
	Standard air flow	H/M/L	(m³/min.)	13.3/11.2/9.1
	Motor		(W)	60
Air filter			Long life filter	
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, TCB-AX21E2	
Sound pressure level		H/M/L	(dB•A)	43/39/34
Sound power level		H/M/L	(dB•A)	58/54/49
Connecting pipe		Gas side	(mm)	12.7
		Liquid side	(mm)	6.4
		Drain port	(mm)	VP25

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	564MUT-E	
	Indoor unit 2		RAV-SM	564MUT-E	
	Outdoor unit		RAV-SM	1104AT(J)P-E	
Cooling capacity			(kW)	10.0 (3.0 - 11.2)	
Heating capacity			(kW)	11.2 (3.0 - 13.0)	
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz		
Electrical characteristics	Cooling	Running current (A)		15.28 – 14.01	
		Power consumption (kW)		3.16	
		Power factor (%)		94	
		EER		3.16	
	Heating	Running current (A)		14.46 – 13.25	
		Power consumption (kW)		2.99	
		Power factor (%)		94	
		COP		3.75	
	Maximum current		(A)	20.7	
Indoor unit					
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L	(m³/min.)	13.3/11.2/9.1	
	Motor		(W)	60	
Sound pressure level		H/M/L	(dB•A)	43/39/34	
Sound power level		H/M/L	(dB•A)	58/54/49	
Outdoor unit					
Refrigerant pipe	Standard length		(m)	7.5	
	Min. length		(m)	5.0	
	Max. total length		(m)	50.0	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower		(m)	30
		Outdoor higher		(m)	30
Fan unit	Fan		Propeller fan		
	Standard air flow		(m³/min.)	68	
	Motor		(W)	100	
Connecting pipe	Gas side	Main	(mm)	15.9	
		Sub	(mm)	12.7	
	Liquid side	Main	(mm)	9.5	
		Sub	(mm)	6.4	
Sound pressure level		Cooling/Heating	(dB•A)	53/54	
Sound power level		Cooling/Heating	(dB•A)	70/71	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

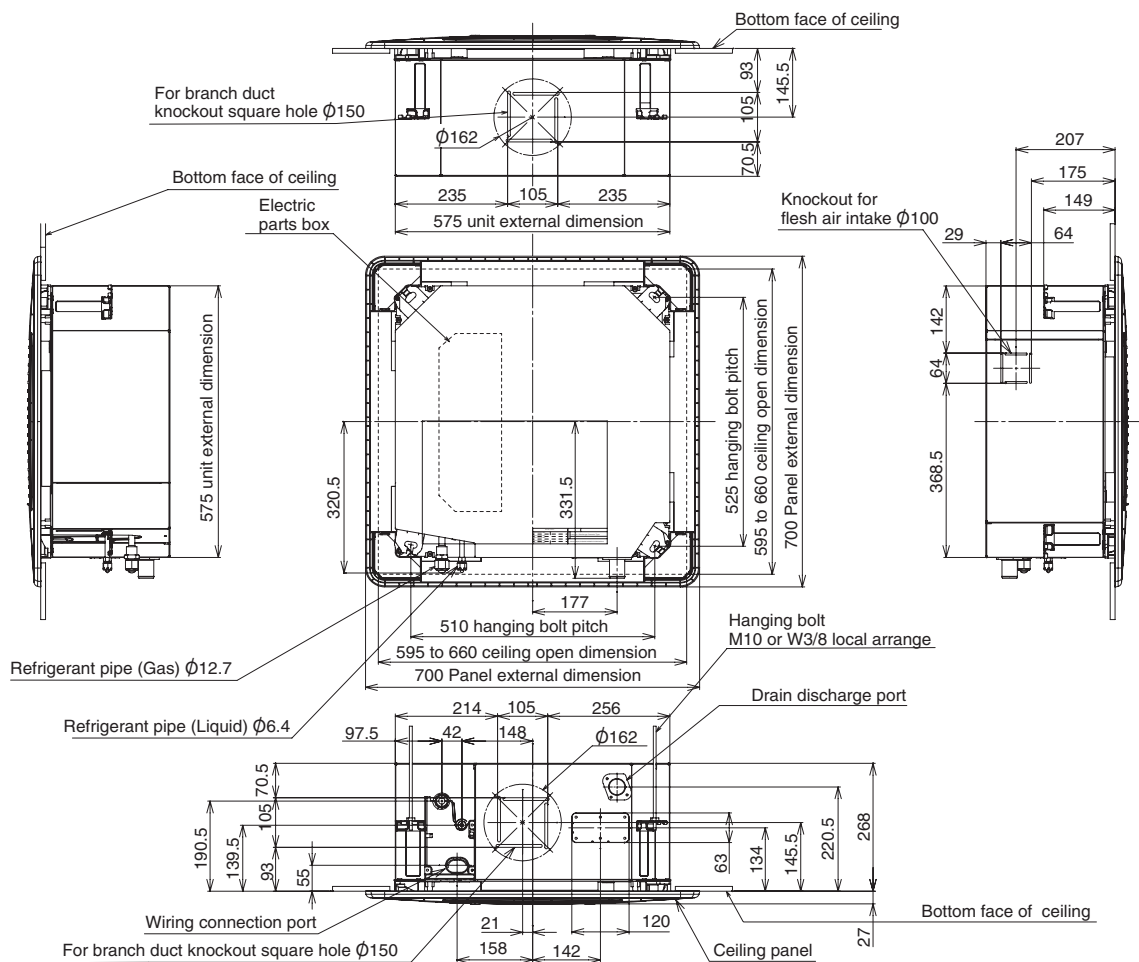
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

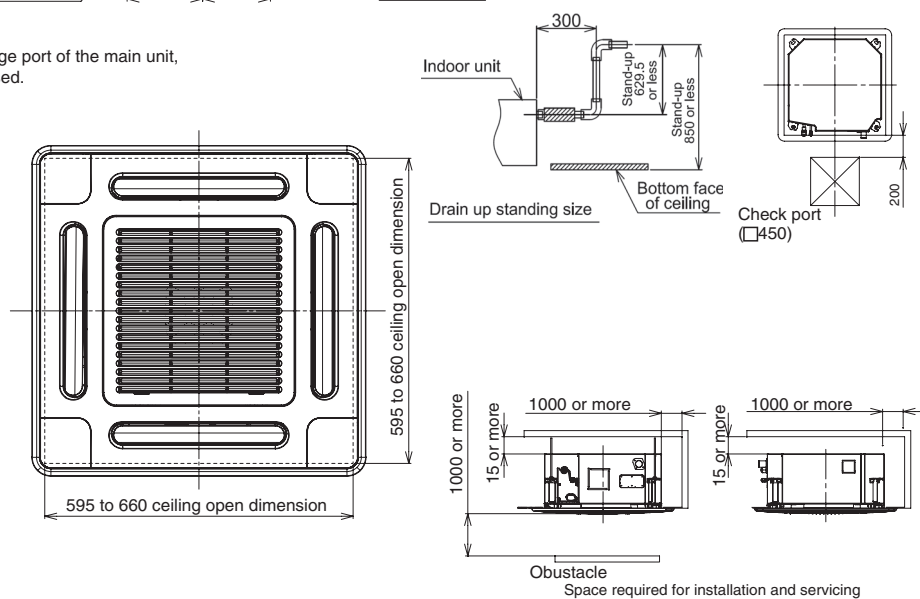
2-3-2. Dimension

RAV-SM564MUT-E



(NOTE)

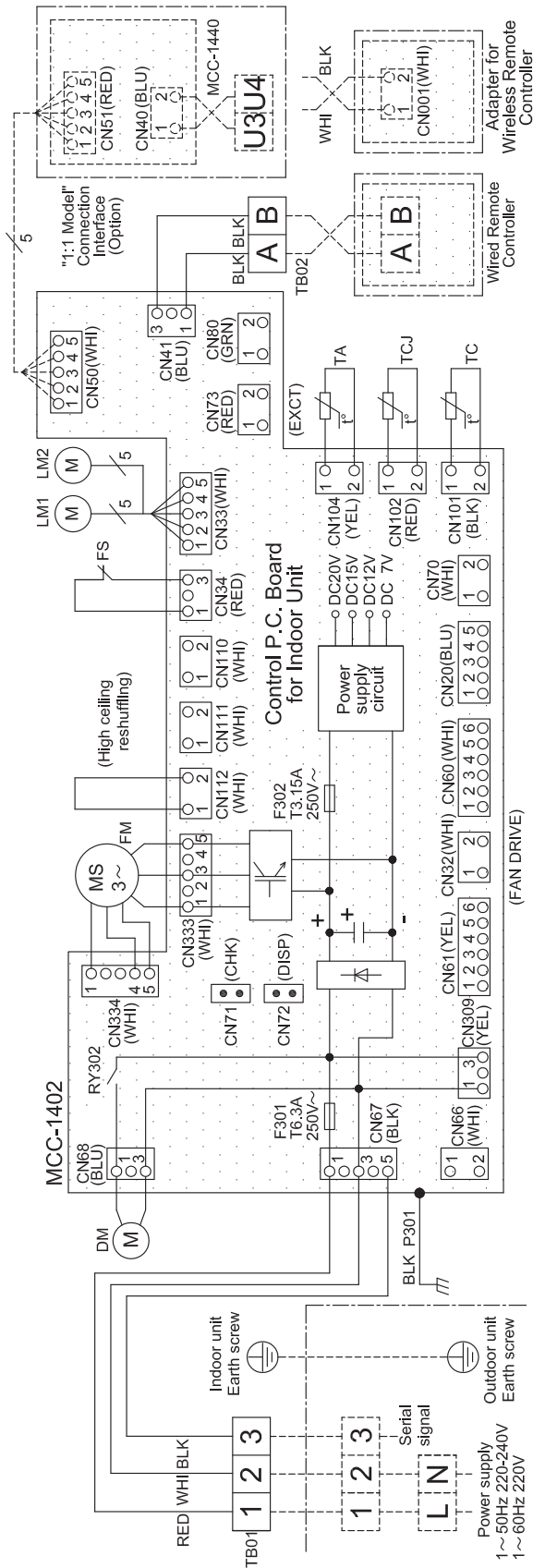
As ABS is used for the drain discharge port of the main unit, the vinyl chloride paste cannot be used. Use the flexible hose (Band fix) included in the package.



Note: All dimensions are in mm.

2-3-3. Wiring diagrams

RAV-SM564MUT-E



Symbol	Parts Name
CN**	Connector
DM	Drain Pump Motor
F301,302	Fuse
FM	Fan Motor
LM1,2	Float Switch
RY302	Louver Motor
TA	Drain Control Relay
TB01,02	Indoor temp sensor
TC,TCJ	Terminal Block
	Temp sensor

IDENTIFICATION	
RED	: RED
WHI	: WHITE
YEL	: YELLOW
BLU	: BLUE
BLK	: BLACK
GRY	: GRAY
PNK	: PINK
ORN	: ORANGE
BRW	: BROWN
GRN	: GREEN

2-3-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***MUT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.5	4.9	3.7	5.2	3.8	5.4	4.0	5.6	4.1	5.7	4.2	5.9	4.4	6.2	4.6	6.5	4.8
	12.0	4.7	3.5	4.9	3.6	5.2	3.8	5.3	3.9	5.5	4.1	5.7	4.2	5.8	4.3	6.2	4.6	6.5	4.8
	14.0	4.6	3.4	4.9	3.6	5.1	3.8	5.3	3.9	5.5	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	16.0	4.6	3.4	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.8	4.3	6.1	4.5	6.4	4.7
	18.0	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.6	4.1	5.7	4.2	6.1	4.5	6.3	4.7
	20.0	4.5	3.4	4.8	3.5	5.0	3.7	5.2	3.8	5.4	4.0	5.5	4.1	5.7	4.2	6.0	4.4	6.3	4.6
	21.0	4.5	3.3	4.7	3.5	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.1	5.6	4.2	6.0	4.4	6.3	4.6
	23.0	4.5	3.3	4.7	3.5	4.9	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.4	4.9	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.3	6.1	4.5
	27.0	4.4	3.2	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.0	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.5	4.9	3.6	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.2	6.0	4.4
	31.0	4.2	3.1	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.1	5.8	4.3
	35.0	4.1	3.0	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.7	5.1	3.8	5.4	4.0	5.7	4.2
	37.0	4.0	3.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.6	5.0	3.7	5.3	4.0	5.6	4.1
	39.0	3.9	2.9	4.2	3.1	4.4	3.2	4.5	3.3	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-3-5. Part load performance

Combination

Indoor unit : RAV-SM564MUT-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	300	1500	300
RATING	5000	1650	5300	1520

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	1800	1440	1150	920	720	560	430	330	330	330
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1650	1320	1050	840	660	510	390	300	300	300
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1490	1180	950	750	600	460	350	270	270	270
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1330	1060	850	680	530	410	320	240	240	240
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1190	950	760	610	480	370	280	220	220	220

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1610	1370	1140	930	740	570	430	320	310	310
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1550	1320	1100	900	710	550	420	310	300	300
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1520	1300	1080	880	700	540	410	310	300	300
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1300	1110	930	760	600	470	350	270	260	260
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1290	1100	920	750	590	460	350	260	250	250
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1270	1090	910	740	580	460	340	260	250	250
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1240	1060	890	720	570	440	340	250	240	240
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1230	1050	880	710	570	440	330	250	240	240
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1190	1010	840	690	540	420	320	240	230	230
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	1060	900	750	610	490	380	290	210	200	200

Combination

Indoor unit : RAV-SM564MUT-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3160	11200	2990

Q: Capacity in W

W: Power Consumption in W

Cooling

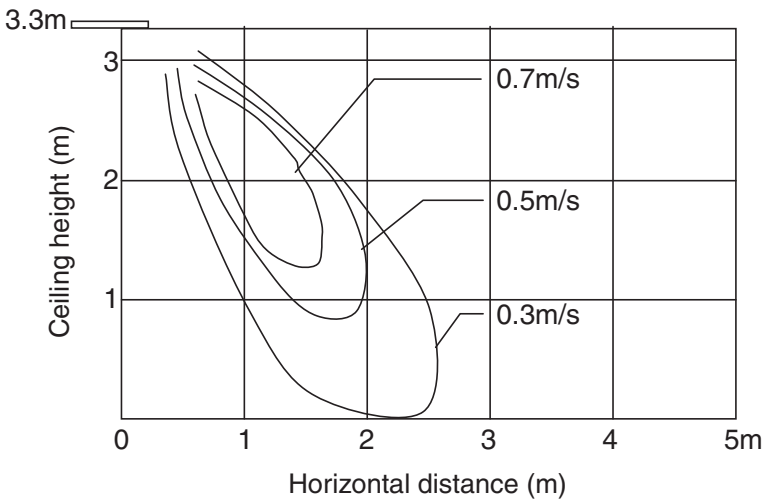
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2850	2850	2850
	W	3440	2740	2230	1800	1440	1120	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3160	2520	2050	1660	1320	1030	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3150	3150	3150
	W	2870	2290	1860	1500	1200	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3270	3270	3270
	W	2610	2080	1690	1370	1090	850	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3360	3360	3360
	W	2350	1880	1530	1240	990	770	590	450	450	450

Heating

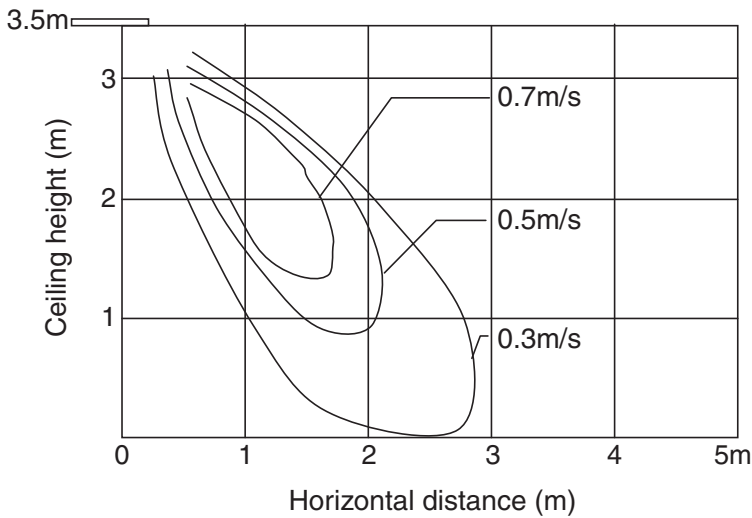
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

2-3-6. Air throw distance chart

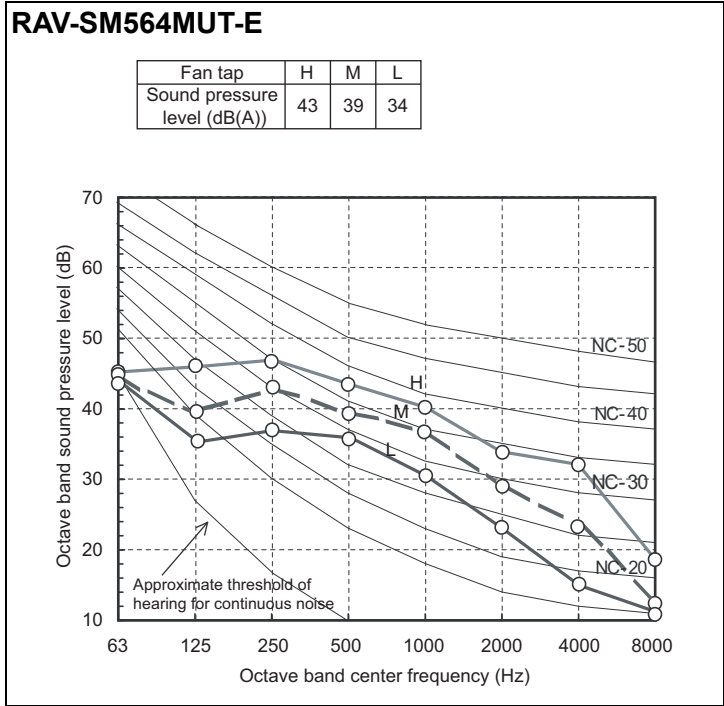
RAV-SM564MUT-E



RAV-SM564MUT-E (High ceiling mode)



2-3-7. Sound characteristics (NC curve)



2-4. Ducted Type (6 series)

2-4-1. Specifications

2-4-2. Dimension

2-4-3. Wiring diagrams

2-4-4. Sensible capacity table

2-4-5. Part load performance

2-4-6. Fan static characteristics

2-4-7. Sound characteristics (NC curve)

2-4-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	566BT-E	806BT-E	1106BT-E	1406BT-E
	Outdoor unit		RAV-SM	564AT(J)P-E	804AT(J)P-E	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	5.0 (1.5 – 5.6)	6.7 (1.5 – 7.4)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)
Heating capacity			(kW)	5.3 (1.5 – 6.3)	7.7 (1.5 – 9.0)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz				
Electrical characteristics	Cooling	Running current	(A)	8.58 – 7.86	11.15 – 10.22	15.18 – 13.92	21.37 – 19.59
		Power consumption	(kW)	1.83	2.38	3.14	4.42
		Power factor	(%)	97	97	94	94
		EER		2.73	2.82	3.18	2.74
	Heating	Running current	(A)	7.59 – 6.96	10.87 – 9.97	14.46 – 13.25	17.17 – 15.74
		Power consumption	(kW)	1.62	2.32	2.99	3.55
		Power factor	(%)	97	97	94	94
		COP		3.27	3.32	3.75	3.61
Maximum current		(A)	12.9	15.4	22.0	22.8	
Appearance	Main unit		Zinc hot dipping steel plate				
Outer dimension	Main unit	Height	(mm)	275			
		Width	(mm)	700	1,000	1,400	
		Depth	(mm)	750			
Total weight	Main unit		(kg)	23	30	40	
Heat exchanger			Finned tube				
Fan unit	Fan		Centrifugal fan				
	Standard air flow	H/M/L	(m³/min.)	13.3/10.5/8.0	20.0/15.5/12.0	35.0/27.5/21.0	35.0/27.5/21.0
	Motor		(W)	150		250	
	External static pressure	Standard (Upper – Lower)	(Pa)	30 (120 – 30)		50 (120 – 30)	
Air filter			Long life filter				
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2				
Connecting pipe		Gas side	(mm)	12.7	15.9		
		Liquid side	(mm)	6.4	9.5		
		Drain port	(mm)	VP25			
Sound pressure level		H/M/L	(dB•A)	33/29/25	34/30/26	40/36/33	40/36/33
Sound power level		H/M/L	(dB•A)	48/44/40	49/45/41	55/51/48	55/51/48

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

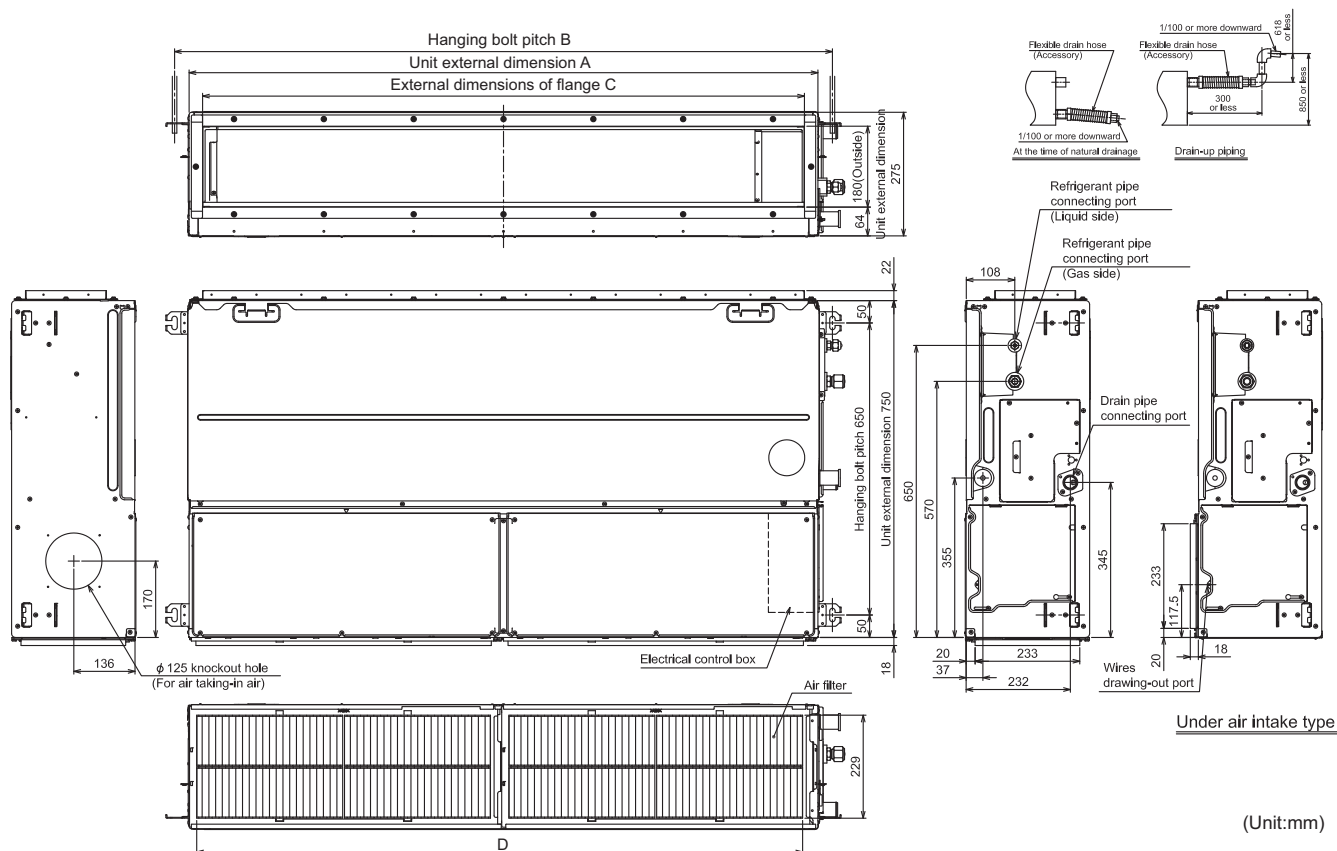
Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	566BT-E	806BT-E	
	Indoor unit 2		RAV-SM	566BT-E	806BT-E	
	Outdoor unit		RAV-SM	1104AT(J)P-E	1404AT(J)P-E	
Cooling capacity			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)	
Heating capacity			(kW)	11.2 (2.4 – 12.5)	12.8 (3.0 – 16.0)	
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz			
Electrical characteristics	Cooling	Running current	(A)	15.18 – 13.92	21.37 – 19.59	
		Power consumption	(kW)	3.14	4.42	
		Power factor	(%)	94	94	
		EER		3.18	2.74	
	Heating	Running current	(A)	14.46 – 13.25	17.17 – 15.74	
		Power consumption	(kW)	2.99	3.55	
		Power factor	(%)	94	94	
		COP		3.75	3.61	
Maximum current		(A)	22.0	22.8		
Fan unit	Fan		Centrifugal fan			
	Standard air flow	H/M/L	(m³/min.)	13.3/10.5/8.0	20.0/15.5/12.0	
	Motor		(W)	150		
	External static pressure	Standard (Upper – Lower)		(Pa)	30 (120 – 30)	
Sound pressure level		H/M/L		(dB•A)	33/29/25	34/30/26
Sound power level		H/M/L		(dB•A)	48/44/40	49/45/41
Outdoor unit						
Refrigerant pipe	Standard length		(m)	7.5		
	Max. total length		(m)	50.0		
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)		
	Height difference	Outdoor lower		(m)	30	30
		Outdoor higher		(m)	30	30
Fan unit	Fan		Propeller fan			
	Standard air flow		(m³/min.)	68	70	
	Motor		(W)	100	100	
Connecting pipe	Gas side	Main	(mm)	15.9		
		Sub	(mm)	12.7		
	Liquid side	Main	(mm)	9.5		
		Sub	(mm)	6.4		
Sound pressure level		Cooling/Heating	(dB•A)	53/54	54/55	
Sound power level		Cooling/Heating	(dB•A)	70/71	70/71	

2-4-2. Dimension

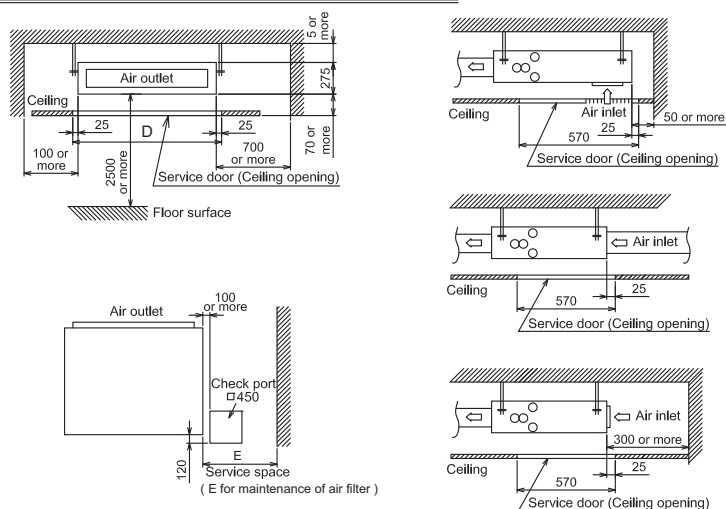
RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E



Dimension

	A	B	C	D
RAV-SM566BT-E	700	765	640	750
RAV-SM806BT-E	1000	1065	940	1050
RAV-SM1106BT-E	1400	1465	1340	1450
RAV-SM1406BT-E				

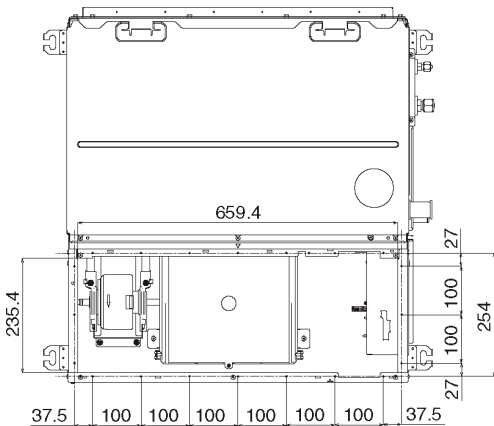
Space required for installation and servicing



	E
RAV-SM566BT-E	700
RAV-SM806BT-E	500
RAV-SM1106BT-E	700
RAV-SM1406BT-E	

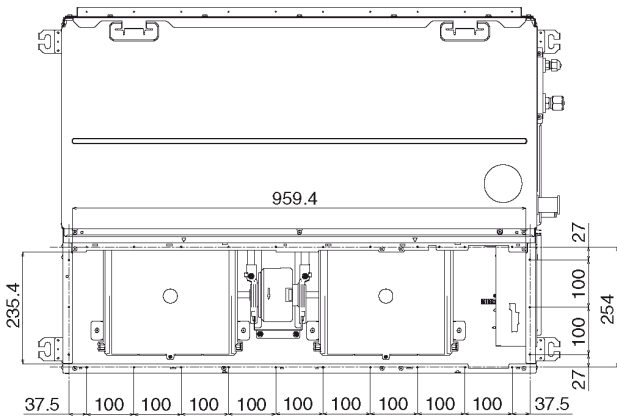
RAV-SM566BT-E

<Under air intake>

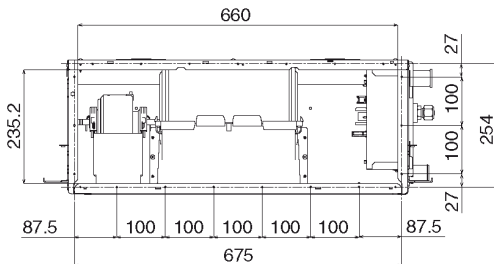


RAV-SM806BT-E

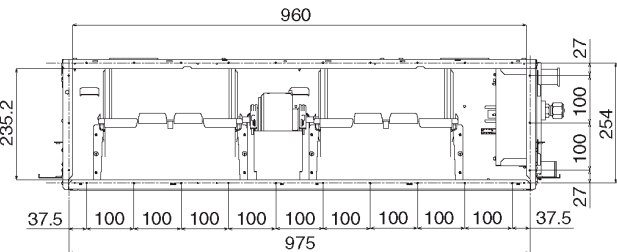
<Under air intake>



<Back air intake>

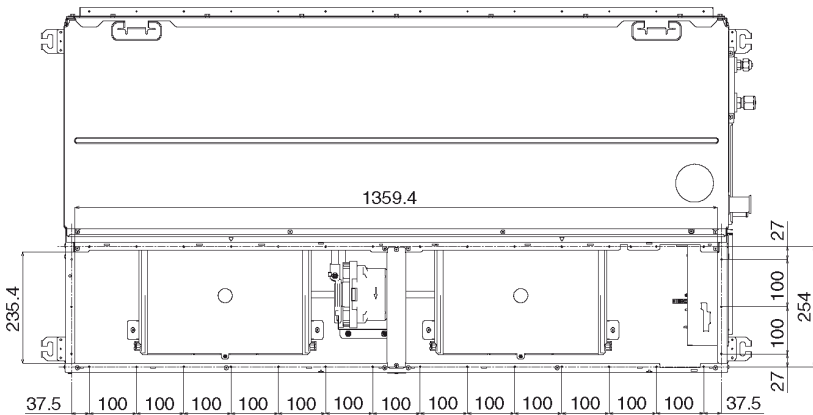


<Back air intake>

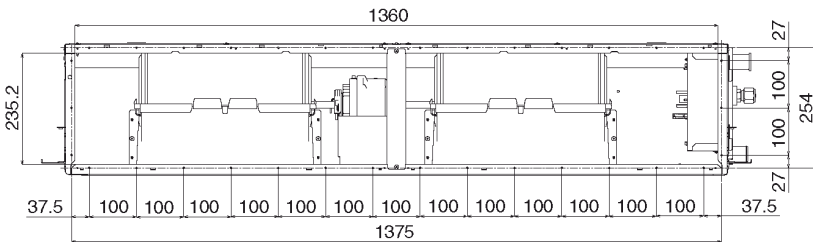


RAV-SM1106BT-E, RAV-SM1406BT-E

<Under air intake>

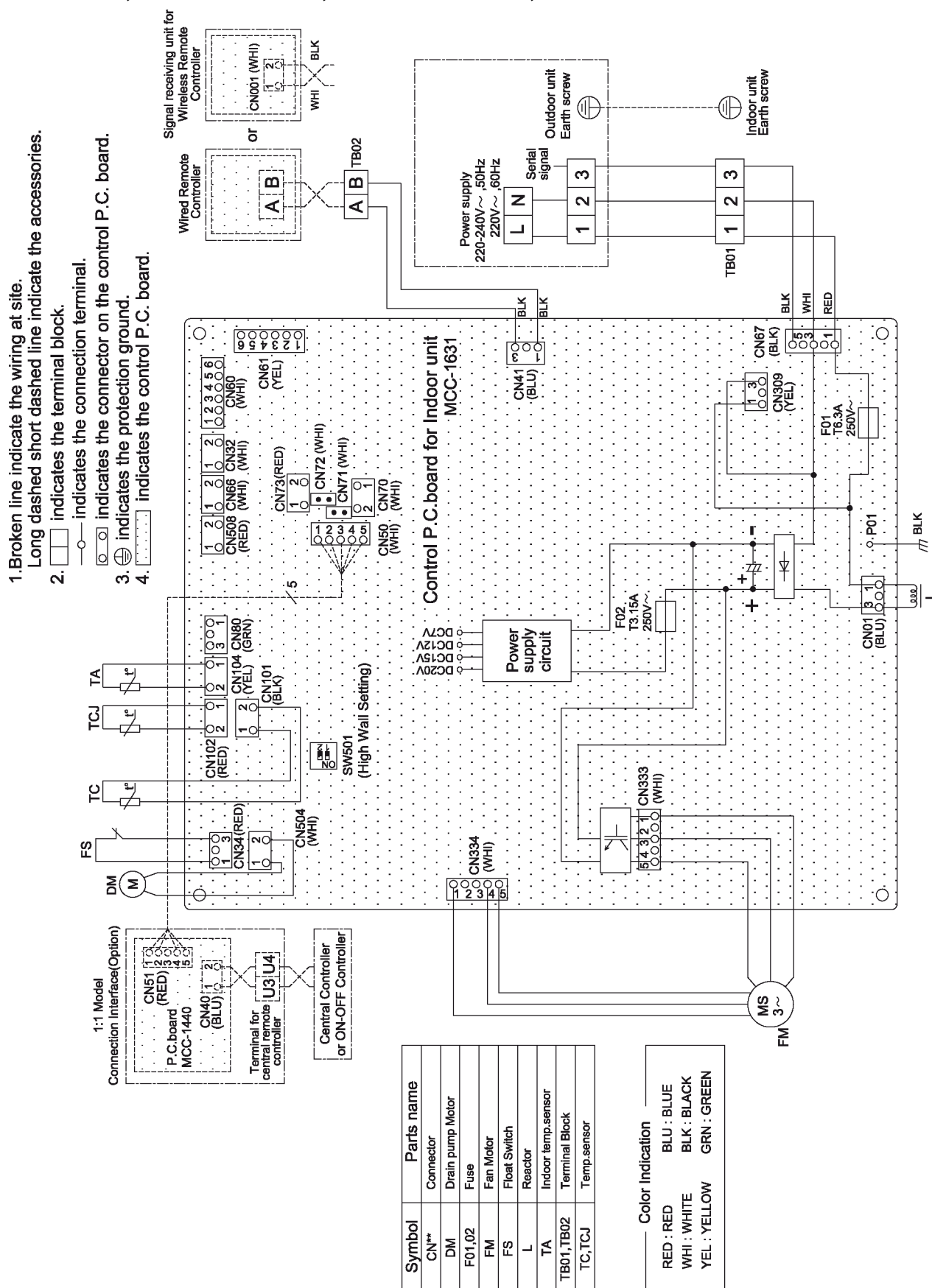


<Back air intake>



2-4-3. Wiring diagrams

RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E



2-4-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***BT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.6	4.9	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	5.9	4.5	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.1	5.5	4.2	5.7	4.3	5.8	4.4	6.2	4.7	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.9	5.3	4.0	5.5	4.2	5.6	4.3	5.8	4.4	6.1	4.7	6.4	4.9
	16.0	4.6	3.5	4.8	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.3	5.8	4.4	6.1	4.6	6.4	4.9
	18.0	4.6	3.5	4.8	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.6	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.5	4.2	5.7	4.3	6.0	4.6	6.3	4.8
	21.0	4.5	3.4	4.7	3.6	5.0	3.8	5.2	3.9	5.3	4.1	5.5	4.2	5.6	4.3	6.0	4.5	6.3	4.8
	23.0	4.5	3.4	4.7	3.6	4.9	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.5	6.2	4.7
	25.0	4.4	3.4	4.6	3.5	4.9	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.5	4.2	5.9	4.4	6.1	4.7
	27.0	4.4	3.3	4.6	3.5	4.8	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.2	5.8	4.4	6.0	4.6
	29.0	4.3	3.3	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.9	5.2	4.0	5.4	4.1	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.3	5.9	4.5
	33.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.8	5.1	3.9	5.2	4.0	5.5	4.2	5.8	4.4
	35.0	4.1	3.1	4.3	3.3	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.1	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.1	5.6	4.2
	39.0	3.9	3.0	4.2	3.2	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.7	4.9	3.8	5.2	4.0	5.5	4.2

unit size	outdoor air temp. CDB	door air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.3	4.9	6.8	5.3	7.0	5.4	7.2	5.6	7.5	5.8	7.6	6.0	7.8	6.1	8.3	6.4	8.7	6.7
	12.0	6.2	4.8	6.8	5.3	6.9	5.4	7.2	5.6	7.4	5.7	7.6	5.9	7.8	6.1	8.3	6.4	8.7	6.7
	14.0	6.2	4.8	6.7	5.2	6.9	5.3	7.1	5.5	7.4	5.7	7.5	5.9	7.7	6.1	8.2	6.3	8.6	6.6
	16.0	6.1	4.8	6.7	5.2	6.8	5.3	7.1	5.5	7.3	5.7	7.5	5.8	7.7	6.0	8.2	6.3	8.6	6.5
	18.0	6.1	4.7	6.6	5.1	6.8	5.2	7.0	5.4	7.3	5.6	7.5	5.8	7.6	6.0	8.1	6.2	8.5	6.5
	20.0	6.0	4.7	6.6	5.1	6.7	5.2	7.0	5.4	7.2	5.6	7.4	5.7	7.6	5.9	8.0	6.2	8.4	6.4
	21.0	6.0	4.7	6.5	5.1	6.7	5.2	6.9	5.4	7.2	5.6	7.4	5.7	7.5	5.9	8.0	6.2	8.4	6.4
	23.0	5.9	4.6	6.5	5.0	6.6	5.1	6.8	5.3	7.1	5.5	7.3	5.7	7.5	5.8	7.9	6.2	8.3	6.3
	25.0	5.9	4.6	6.4	5.0	6.5	5.1	6.8	5.3	7.0	5.4	7.2	5.6	7.5	5.8	7.8	6.1	8.2	6.2
	27.0	5.9	4.5	6.3	4.9	6.4	5.0	6.7	5.2	6.9	5.4	7.1	5.5	7.4	5.7	7.7	6.0	8.1	6.2
	29.0	5.8	4.5	6.2	4.8	6.3	4.9	6.6	5.1	6.8	5.3	7.0	5.5	7.3	5.6	7.6	6.0	8.0	6.1
	31.0	5.7	4.4	6.1	4.8	6.3	4.9	6.5	5.0	6.7	5.2	6.9	5.4	7.1	5.5	7.5	5.9	7.9	6.0
	33.0	5.6	4.3	6.0	4.7	6.1	4.8	6.4	5.0	6.6	5.1	6.8	5.3	7.0	5.4	7.5	5.8	7.7	6.2
	35.0	5.5	4.3	5.9	4.6	6.0	4.7	6.3	4.9	6.5	5.0	6.7	5.2	6.9	5.4	7.3	5.7	7.6	5.9
	37.0	5.4	4.2	5.9	4.5	5.9	4.6	6.1	4.8	6.4	5.0	6.6	5.1	6.8	5.2	7.2	5.6	7.5	5.8
	39.0	5.3	4.1	5.8	4.4	5.9	4.5	6.0	4.7	6.2	4.8	6.4	5.0	6.6	5.1	7.0	5.4	7.4	5.7

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1106	10.0	9.4	7.9	10.2	8.3	10.4	8.4	10.7	8.7	11.1	8.9	11.4	8.9	11.8	8.9	12.5	8.8	13.0	8.6
	12.0	9.3	7.8	10.1	8.2	10.3	8.3	10.7	8.6	11.0	8.8	11.4	8.8	11.7	8.8	12.4	8.7	12.9	8.5
	14.0	9.3	7.8	10.0	8.2	10.2	8.3	10.6	8.6	11.0	8.8	11.3	8.8	11.6	8.8	12.3	8.7	12.9	8.5
	16.0	9.2	7.7	10.0	8.1	10.2	8.2	10.5	8.5	10.9	8.7	11.2	8.7	11.5	8.7	12.2	8.6	12.8	8.4
	18.0	9.1	7.7	9.9	8.1	10.1	8.2	10.4	8.4	10.8	8.7	11.1	8.6	11.4	8.6	12.1	8.5	12.7	8.4
	20.0	9.1	7.6	9.8	8.0	10.0	8.1	10.4	8.4	10.7	8.6	11.0	8.6	11.3	8.6	12.0	8.5	12.6	8.3
	21.0	9.0	7.6	9.8	8.0	10.0	8.1	10.3	8.3	10.7	8.6	11.0	8.5	11.3	8.5	12.0	8.4	12.5	8.3
	23.0	8.9	7.5	9.7	7.9	9.9	8.0	10.2	8.3	10.6	8.5	10.8	8.5	11.2	8.4	11.8	8.4	12.4	8.2
	25.0	8.8	7.4	9.6	7.8	9.8	7.9	10.1	8.2	10.4	8.4	10.8	8.4	11.1	8.4	11.7	8.3	12.2	8.1
	27.0	8.7	7.4	9.4	7.7	9.6	7.8	10.0	8.1	10.3	8.3	10.6	8.3	10.9	8.3	11.6	8.2	12.1	8.0
	29.0	8.6	7.3	9.3	7.6	9.5	7.7	9.8	8.0	10.2	8.2	10.5	8.2	10.8	8.1	11.4	8.1	11.9	7.9
	31.0	8.5	7.2	9.2	7.5	9.4	7.6	9.7	7.9	10.0	8.1	10.3	8.0	10.6	8.0	11.3	8.0	11.8	7.8
	33.0	8.4	7.1	9.0	7.4	9.2	7.5	9.6	7.7	9.9	7.9	10.2	7.9	10.5	7.9	11.1	7.8	11.6	7.7
	35.0	8.2	6.9	8.9	7.3	9.1	7.4	9.4	7.6	9.7	7.8	10.0	7.8	10.3	7.8	10.9	7.7	11.4	7.6
	37.0	8.1	6.8	8.7	7.1	8.9	7.2	9.2	7.5	9.5	7.7	9.8	7.7	10.1	7.6	10.7	7.6	11.2	7.4
	39.0	7.9	6.7	8.5	7.0	8.7	7.1	9.0	7.3	9.3	7.5	9.6	7.5	9.9	7.5	10.5	7.4	10.9	7.3

unit size		outdoor air temp. CDB	indoor air temp.																	
			14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
			20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
1406	10.0	11.3	9.1	12.3	9.6	12.6	9.7	13.0	10.1	13.5	10.3	13.8	10.2	14.2	10.2	15.1	10.1	15.8	10.0	
	12.0	11.3	9.1	12.2	9.5	12.5	9.7	12.9	10.0	13.4	10.2	13.7	10.2	14.1	10.2	15.0	10.1	15.7	9.9	
	14.0	11.2	9.0	12.1	9.5	12.4	9.6	12.9	10.0	13.3	10.1	13.6	10.1	14.0	10.1	14.9	10.1	15.6	9.9	
	16.0	11.1	8.9	12.1	9.4	12.3	9.5	12.8	9.9	13.2	10.1	13.6	10.1	13.9	10.1	14.8	10.0	15.5	9.8	
	18.0	11.0	8.9	12.0	9.3	12.2	9.5	12.7	9.8	13.1	10.1	13.5	10.1	13.8	10.0	14.6	9.9	15.3	9.7	
	20.0	10.9	8.8	11.9	9.2	12.1	9.4	12.5	9.7	13.0	10.0	13.4	10.0	13.7	10.0	14.5	9.8	15.2	9.6	
	21.0	10.9	8.7	11.8	9.2	12.0	9.3	12.5	9.7	12.9	9.9	13.3	9.9	13.6	9.9	14.5	9.8	15.1	9.6	
	23.0	10.8	8.6	11.7	9.1	11.9	9.2	12.4	9.6	12.8	9.8	13.2	9.8	13.6	9.8	14.4	9.7	15.0	9.5	
	25.0	10.6	8.5	11.5	9.0	11.8	9.1	12.2	9.5	12.7	9.7	13.0	9.7	13.4	9.7	14.1	9.6	14.8	9.4	
	27.0	10.6	8.4	11.4	8.9	11.6	9.0	12.1	9.3	12.5	9.6	12.9	9.6	13.3	9.6	14.0	9.5	14.6	9.3	
	29.0	10.5	8.3	1.5	8.8	11.5	8.9	11.9	9.2	12.3	9.5	12.7	9.5	13.1	9.4	13.8	9.3	14.4	9.1	
	31.0	10.3	8.2	11.1	8.6	11.3	8.8	11.7	9.1	12.1	9.3	12.5	9.3	12.9	9.3	13.6	9.2	14.2	8.6	
	33.0	10.1	8.1	10.9	8.5	11.1	8.6	11.5	8.9	11.9	9.2	12.3	9.2	12.7	9.1	13.4	9.0	14.0	8.8	
	35.0	10.0	7.9	10.7	8.3	10.9	8.5	11.3	8.8	11.7	9.0	12.1	9.0	12.5	9.0	13.2	8.9	13.7	8.7	
37.0	9.8	7.9	10.6	8.2	10.7	8.3	11.1	8.6	11.5	8.8	11.9	8.8	12.2	8.8	13.0	8.7	13.6	8.5		
39.0	9.6	7.7	10.4	8.0	10.6	8.1	10.9	8.4	11.3	8.7	11.6	8.6	12.0	8.6	12.7	8.5	13.3	8.3		

2-4-5. Part load performance

Combination

Indoor unit : RAV-SM566BT-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	310	1500	310
RATING	5000	1830	5300	1620

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	2000	1600	1280	1020	800	620	460	340	340	340
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1830	1460	1170	930	730	570	420	310	310	310
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1650	1310	1050	840	660	510	380	280	280	280
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1480	1180	940	750	590	460	340	250	250	250
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1320	1050	840	670	530	410	300	220	220	220

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1710	1460	1220	990	790	610	460	340	330	330
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1650	1410	1180	960	760	590	450	330	320	320
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1620	1380	1150	940	740	580	440	330	310	310
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1390	1190	990	810	640	500	370	280	270	270
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1370	1170	980	790	630	490	370	280	260	260
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1360	1160	970	790	620	490	370	270	260	260
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1330	1130	940	770	610	470	360	270	250	250
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1310	1120	930	760	600	470	350	260	250	250
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1260	1080	900	730	580	450	340	250	240	240
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	1130	960	800	650	520	400	300	230	220	220

Combination

Indoor unit : RAV-SM806BT-E

Outdoor unit : RAV-SM804AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	310	1500	310
RATING	6700	2380	7700	2320

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6330	5690	5060	4430	3800	3160	2530	1900	1420	1420
	W	2600	2110	1660	1270	960	720	560	430	340	340
35	Q	6700	6030	5360	4690	4020	3350	2680	2010	1500	1500
	W	2380	1940	1520	1170	880	660	510	390	310	310
30	Q	7080	6370	5670	4960	4250	3540	2830	2130	1590	1590
	W	2170	1770	1390	1060	800	600	470	360	280	280
25	Q	7360	6620	5890	5150	4420	3680	2950	2210	1650	1650
	W	1970	1600	1260	960	730	550	420	320	260	260
20	Q	7470	6720	5980	5230	4480	3740	2990	2240	1670	1670
	W	1760	1440	1130	860	650	490	380	290	230	230

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4560	3640	2730	1820	1780
	W	2530	2120	1740	1390	1090	830	640	490	350	340
10	Q	8260	7440	6610	5780	4960	4130	3310	2470	1650	1610
	W	2410	2020	1660	1330	1040	790	610	470	330	320
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	2320	1940	1590	1280	1000	760	590	450	320	310
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1180	1160
	W	1990	1670	1370	1100	860	650	510	390	280	270
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	1960	1650	1350	1080	850	650	500	380	270	260
0	Q	5710	5140	4570	4000	3430	2860	2290	1710	1140	1110
	W	1940	1630	1340	1070	840	640	490	380	270	260
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	1900	1590	1300	1050	820	620	480	370	260	250
-7	Q	5420	4880	4340	3800	3250	2710	2170	1620	1080	1060
	W	1880	1580	1290	1040	810	620	480	370	260	250
-10	Q	5010	4510	4010	3500	3000	2510	2000	1500	1000	980
	W	1810	1520	1240	1000	780	590	460	350	250	240
-15	Q	3850	3470	3080	2700	2310	1930	1540	1150	770	750
	W	1620	1360	1110	890	700	530	410	310	220	210

Combination

Indoor unit : RAV-SM1106BT-E

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3140	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3420	2730	2220	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3140	2510	2040	1650	1320	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2850	2270	1850	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2590	2070	1680	1360	1090	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2340	1870	1520	1230	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM1406BT-E

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3550

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3900	3280	2730	2240	1810	1440	1110	820	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3710	3120	2600	2140	1720	1370	1050	780	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3550	2990	2490	2050	1650	1310	1010	750	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3050	2560	2130	1760	1420	1120	860	640	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3000	2530	2100	1730	1400	1110	850	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2980	2500	2080	1710	1380	1100	840	630	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2900	2440	2030	1670	1350	1070	820	610	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2880	2420	2010	1660	1340	1060	820	610	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2770	2330	1940	1600	1290	1020	790	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2470	2080	1730	1430	1150	910	700	520	420	420

Combination

Indoor unit : RAV-SM566BT-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3140	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3420	2730	2220	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3140	2510	2040	1650	1320	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2850	2270	1850	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2590	2070	1680	1360	1090	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2340	1870	1520	1230	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM806BT-E x 2 (Twin)

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3550

Q: Capacity in W
W: Power Consumption in W

Cooling

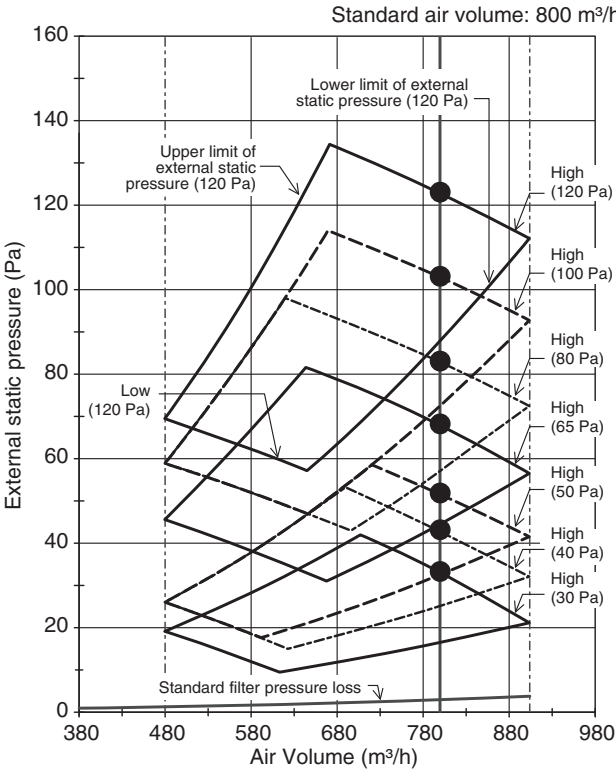
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

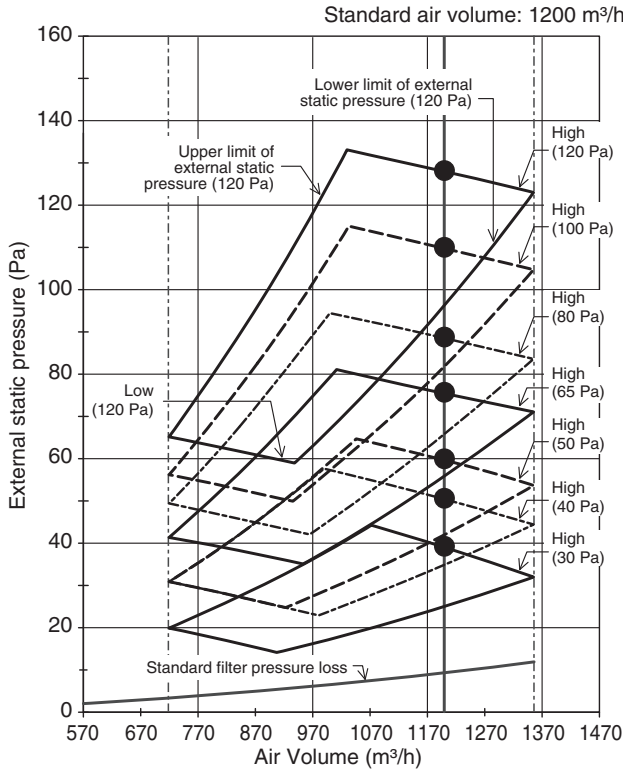
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3900	3280	2730	2240	1810	1440	1110	820	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3710	3120	2600	2140	1720	1370	1050	780	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3550	2990	2490	2050	1650	1310	1010	750	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3050	2560	2130	1760	1420	1120	860	640	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3000	2530	2100	1730	1400	1110	850	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2980	2500	2080	1710	1380	1100	840	630	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2900	2440	2030	1670	1350	1070	820	610	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2880	2420	2010	1660	1340	1060	820	610	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2770	2330	1940	1600	1290	1020	790	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2470	2080	1730	1430	1150	910	700	520	420	420

2-4-6. Fan static characteristics

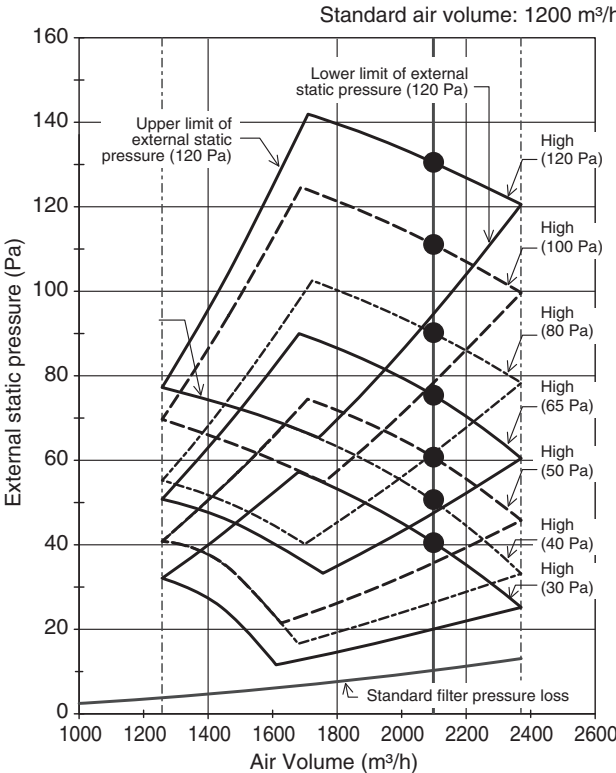
RAV-SM566BT-E



RAV-SM806BT-E

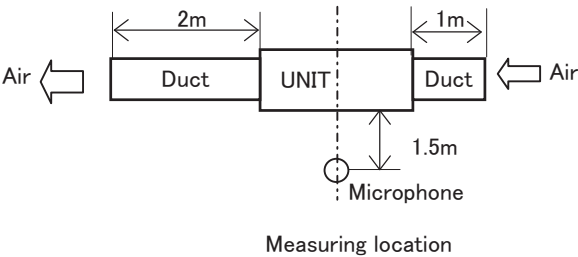


RAV-SM1106BT-E, RAV-SM1406BT-E



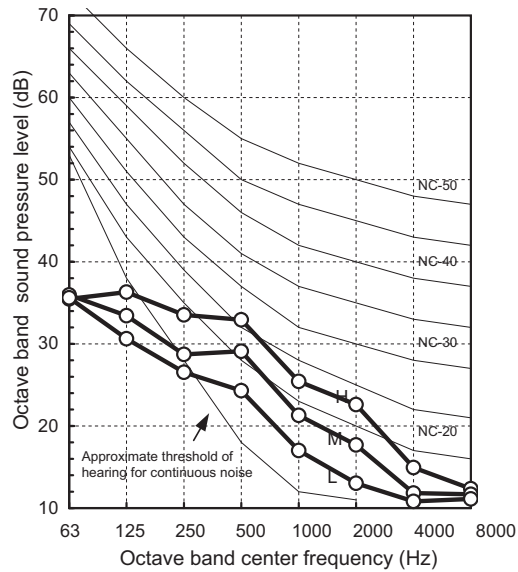
2-4-7. Sound characteristics (NC curve)

RAV-SM566BT-E



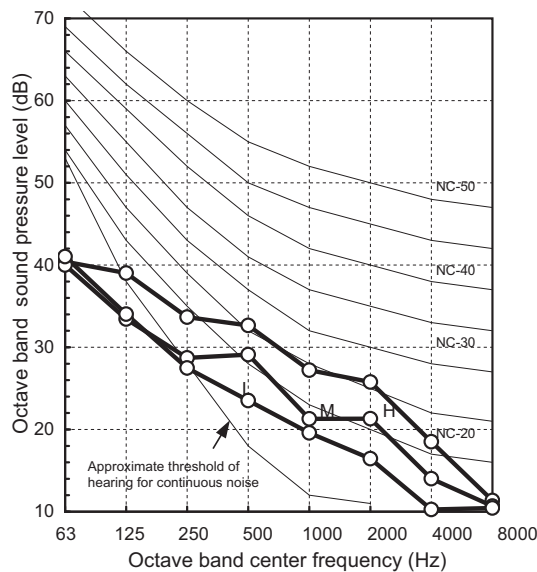
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	33	29	25



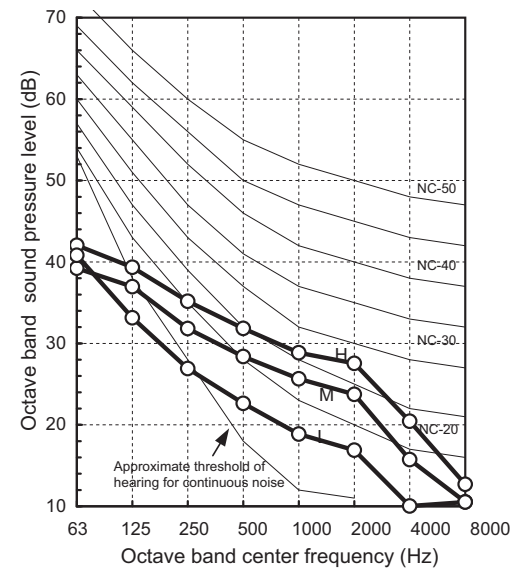
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



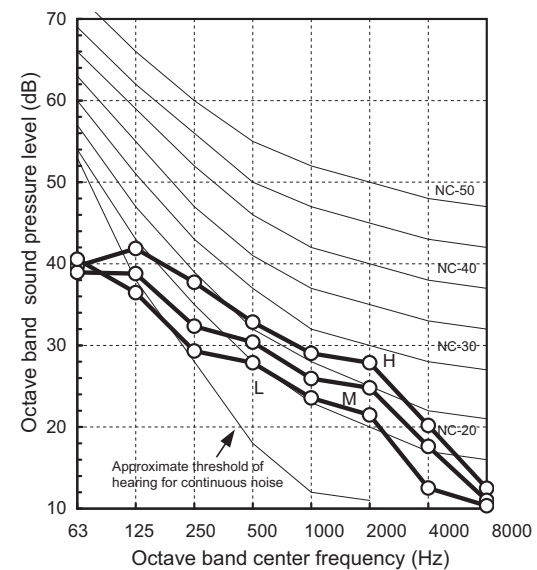
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	31	26



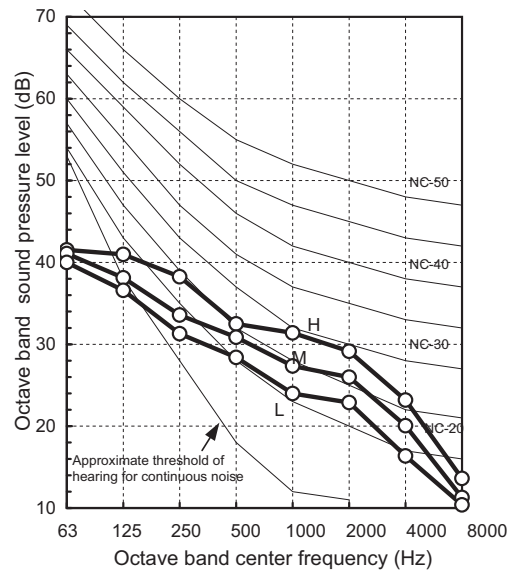
External static pressure 65Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	36	32	29



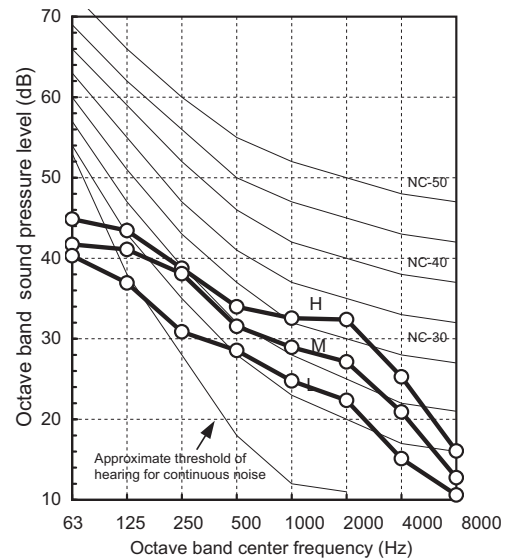
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



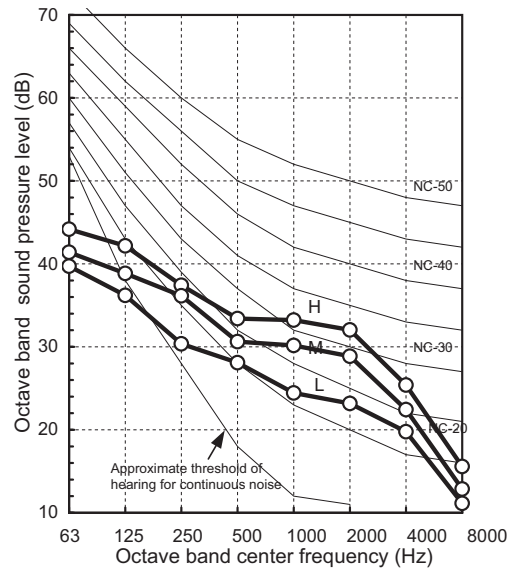
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	35	31

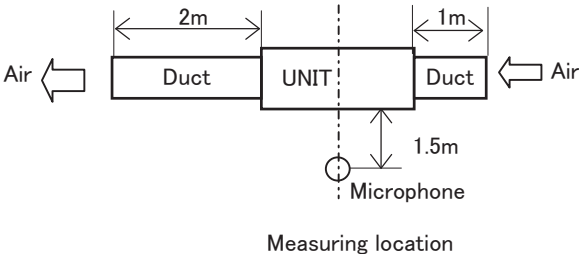


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	31

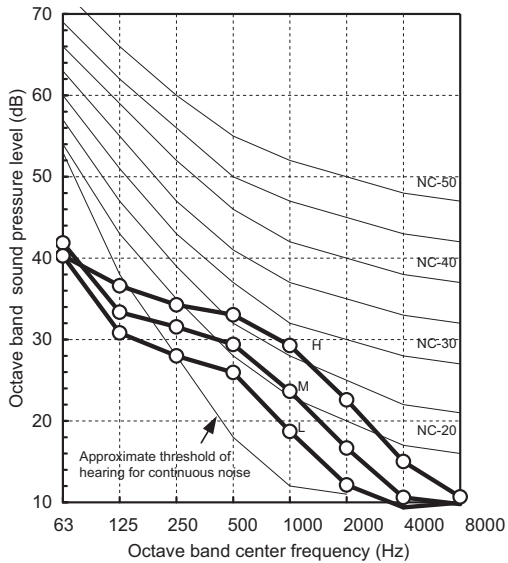


RAV-SM806BT-E



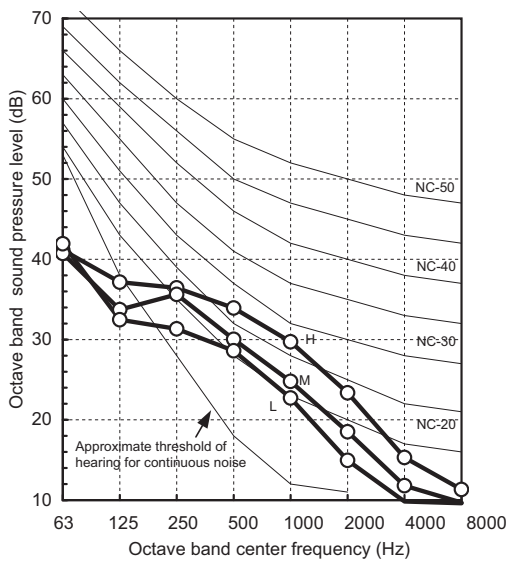
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



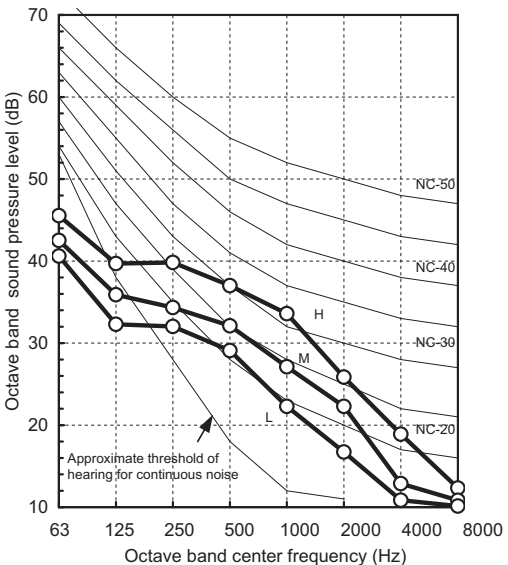
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	32	29



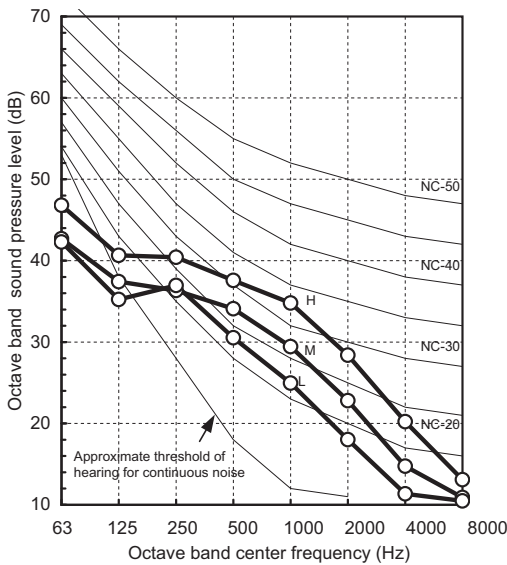
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	33	29



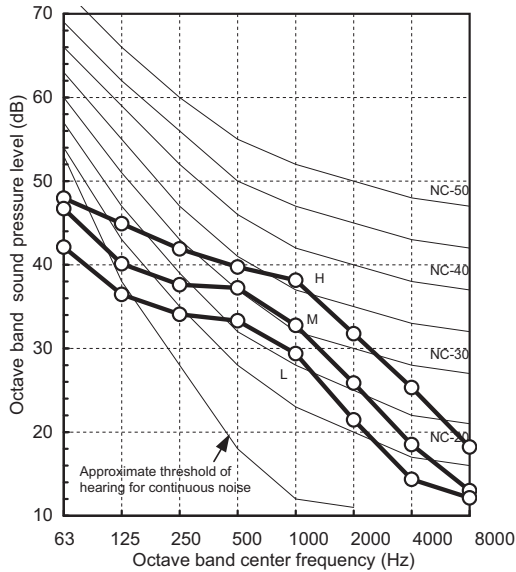
External static pressure 65Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	32



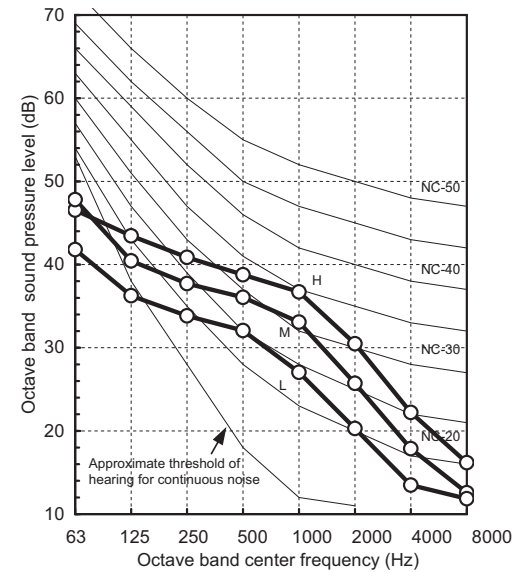
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	34



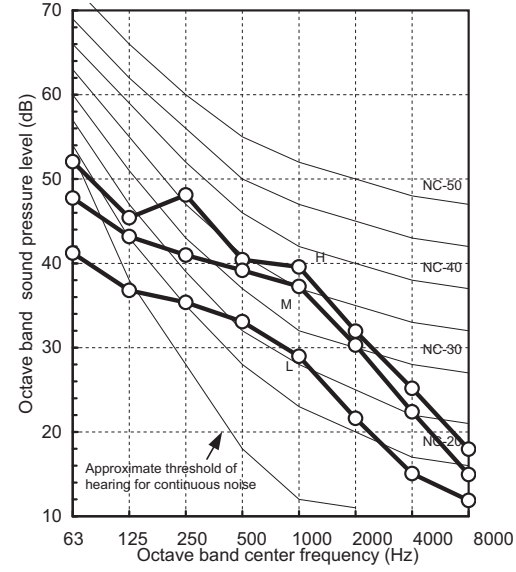
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33

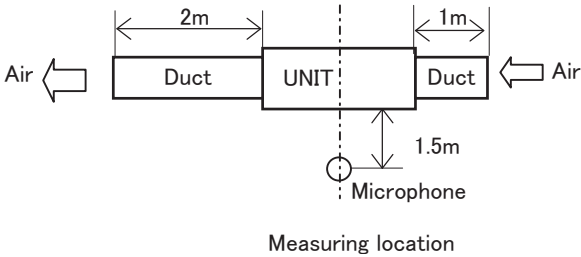


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	41	34

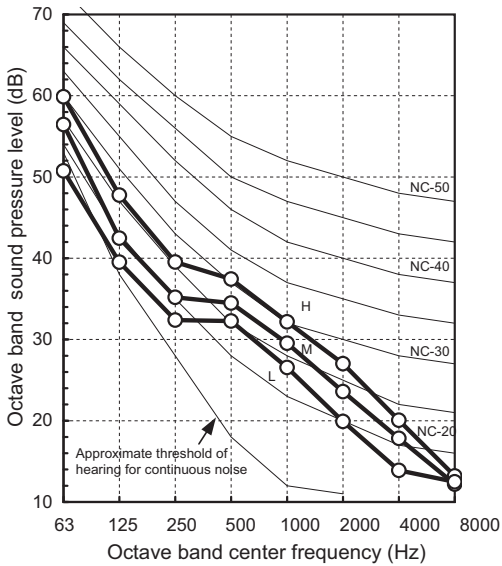


RAV-SM1106BT-E, RAV-SM1406BT-E



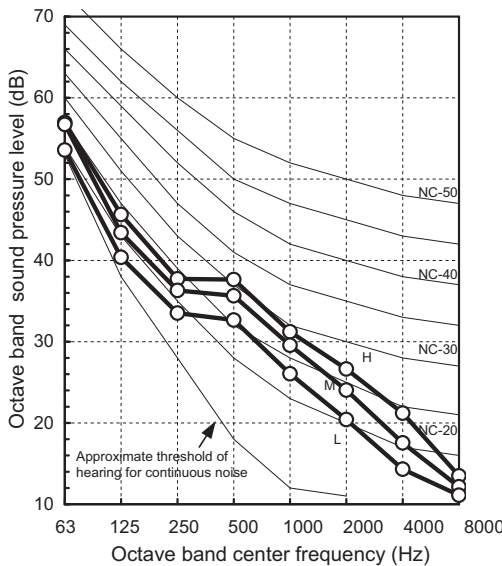
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



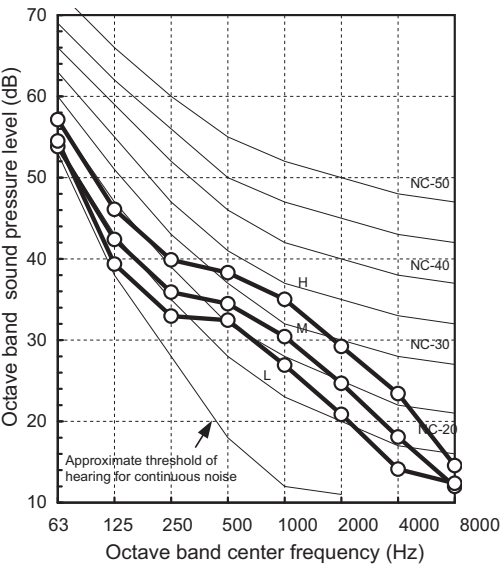
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



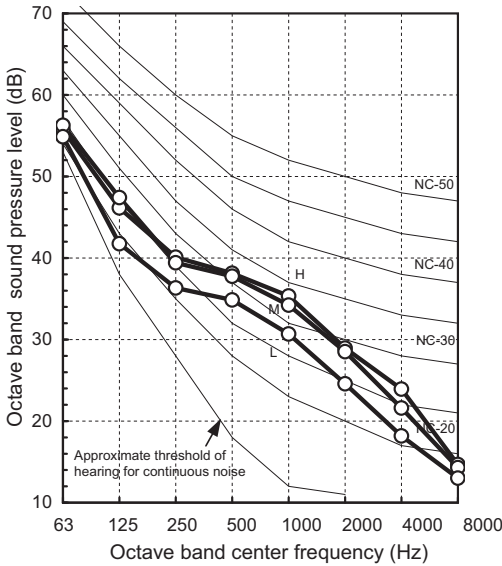
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	40	36	33



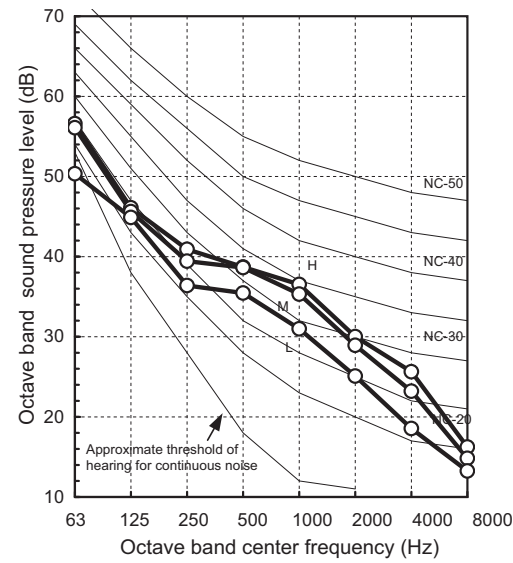
External static pressure 65Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	36



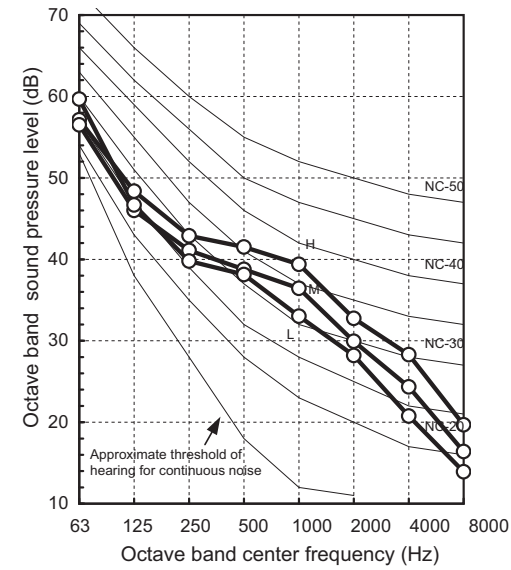
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	40	36



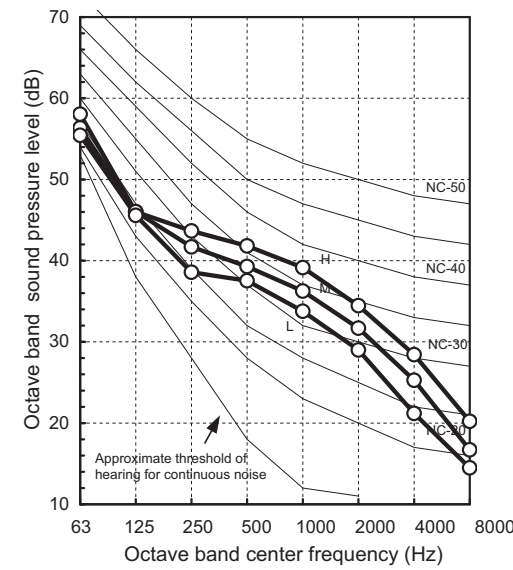
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	43	41	39



External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	42	39



2-5. Slim Duct Type

2-5-1. Specifications

2-5-2. Dimension

2-5-3. Wiring diagrams

2-5-4. Sensible capacity table

2-5-5. Part load performance

2-5-6. Fan static characteristics

2-5-7. Sound characteristics (NC curve)

2-5-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	564SDT-E
	Outdoor unit		RAV-SM	564AT(J)P-E
Cooling capacity			(kW)	5.0 (1.5 - 5.6)
Heating capacity			(kW)	5.3 (1.5 - 6.3)
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz	
Electrical characteristics	Cooling	Running current	(A)	8.95 – 8.20
		Power consumption	(kW)	1.91
		Power factor	(%)	97
		EER		2.62
	Heating	Running current	(A)	7.03 – 6.44
		Power consumption	(kW)	1.50
		Power factor	(%)	97
		COP		3.53
Maximum current		(A)	12.90	
Appearance	Main unit		Zinc hot dipping steel plate	
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	845
		Depth	(mm)	645
Total weight	Main unit		(kg)	22
Heat exchanger			Finned tube	
Fan unit	Fan		Centrifugal	
	Standard air flow	H/M/L	(m³/min.)	13.0/11.3/9.7
	Motor		(W)	60
External static pressure	Standard (Upper - Lower)		(Pa)	4 (24 - 0)
Air filter			Long life filter	
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2	
Sound pressure level	Under air inlet	H/M/L	(dB)	45/40/36
Sound power level	Back air inlet	H/M/L	(dB)	60/55/51
Connecting pipe		Gas side	(mm)	12.7
		Liquid side	(mm)	6.4
		Drain port	(mm)	VP25

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

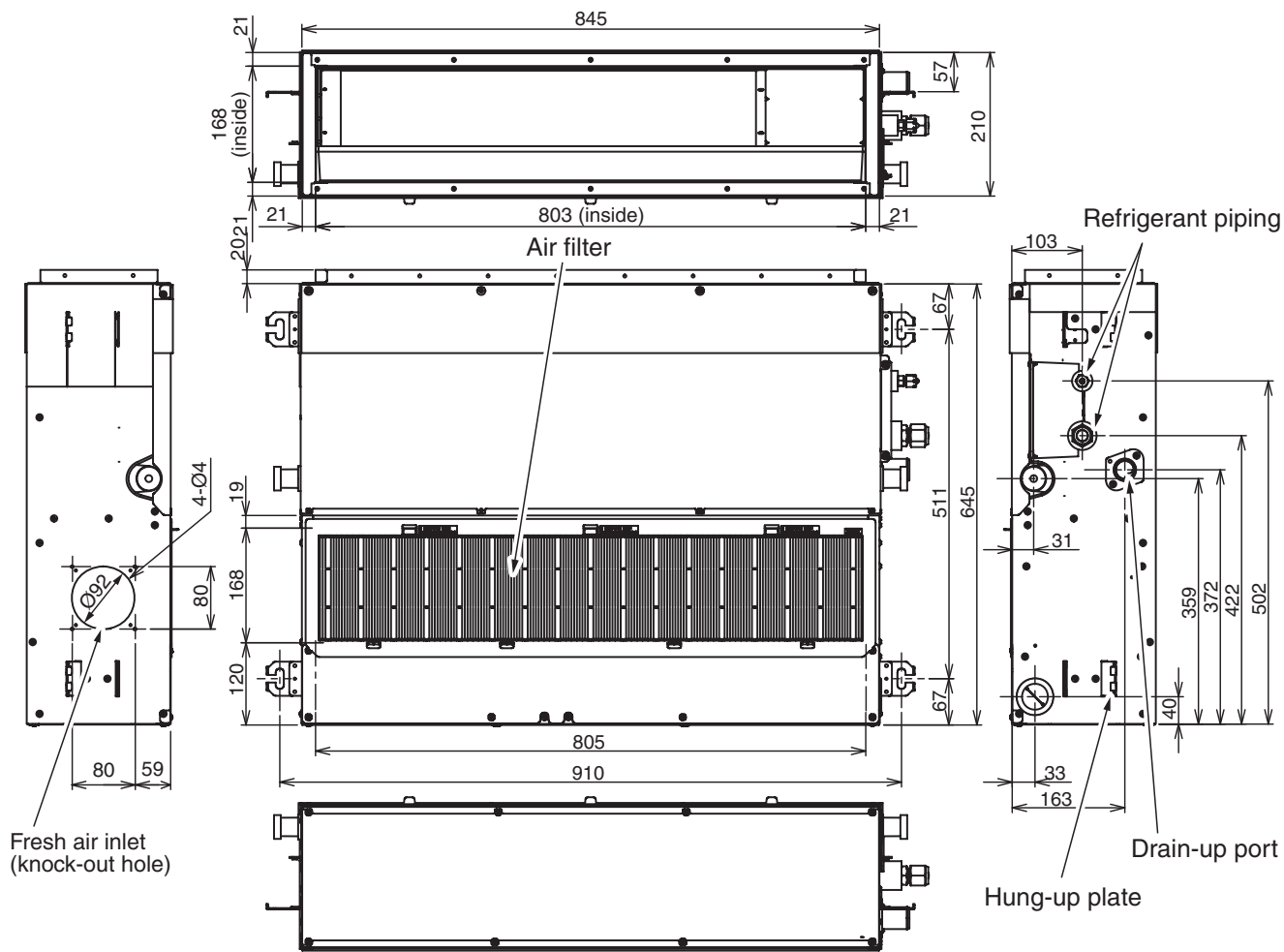
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	564SDT-E
	Indoor unit 2		RAV-SM	564SDT-E
	Outdoor unit		RAV-SM	1104AT(J)P-E
Cooling capacity			(kW)	10.0 (3.0 - 11.2)
Heating capacity			(kW)	11.2 (3.0 - 12.5)
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz	
Electrical characteristics	Cooling	Running current	(A)	15.38 – 14.10
		Power consumption	(kW)	3.18
		Power factor	(%)	94
		EER		3.14
	Heating	Running current	(A)	14.46 – 13.25
		Power consumption	(kW)	2.99
		Power factor	(%)	94
		COP		3.75
Maximum current		(A)	21.0	
Indoor unit				
Fan unit	Fan			Centrifugal
	Standard air flow	H/M/L	(m³/min.)	13.0/11.3/9.7
	Motor			(W) 60
External static pressure	Standard (Upper - Lower)			4 (24 - 0)
Sound pressure level	Under air inlet	H/M/L	(dB•A)	39/36/33
	Back air inlet	H/M/L	(dB•A)	30/28/26
Sound power level	Under air inlet	H/M/L	(dB•A)	54/51/48
	Back air inlet	H/M/L	(dB•A)	45/43/41
Outdoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Refrigerant pipe	Standard length		(m)	7.5
	Min. length		(m)	5
	Max. total length		(m)	50
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)
	Height difference	Outdoor lower	(m)	30
		Outdoor higher	(m)	30
Fan unit	Fan			Propeller fan
	Standard air flow			(m³/min.) 50
	Motor			(W) 63
Connecting pipe	Gas side	Main	(mm)	15.9
		Sub	(mm)	12.7
	Liquid side	Main	(mm)	9.5
		Sub	(mm)	6.4
Sound pressure level		Cooling/Heating	(dB•A)	48/49
Sound power level		Cooling/Heating	(dB•A)	64/65

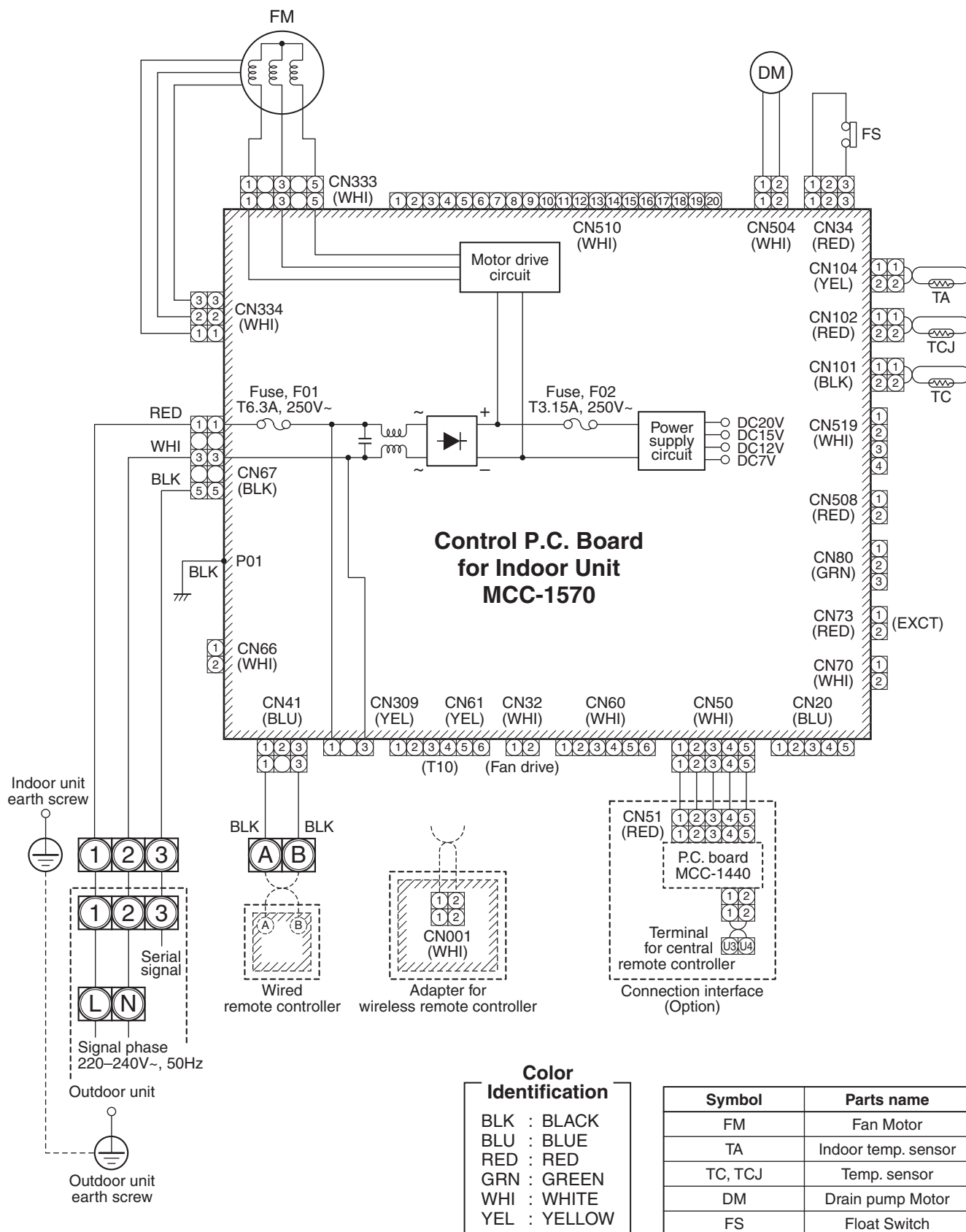
2-5-2. Dimension

RAV-SM564SDT-E



2-5-3. Wiring diagrams

RAV-SM564SDT-E



2-5-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***SDT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.3	4.9	3.5	5.2	3.6	5.4	3.8	5.6	3.9	5.7	4.0	5.9	4.1	6.2	4.4	6.5	4.6
	12.0	4.7	3.3	4.9	3.4	5.2	3.6	5.3	3.7	5.5	3.9	5.7	4.0	5.8	4.1	6.2	4.3	6.5	4.5
	14.0	4.6	3.2	4.9	3.4	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	5.8	4.1	6.1	4.3	6.4	4.5
	16.0	4.6	3.2	4.8	3.4	5.1	3.6	5.3	3.7	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.3	6.4	4.5
	18.0	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.7	4.0	6.1	4.2	6.3	4.4
	20.0	4.5	3.2	4.8	3.3	5.0	3.5	5.2	3.6	5.4	3.8	5.5	3.9	5.7	4.0	6.0	4.2	6.3	4.4
	21.0	4.5	3.2	4.7	3.3	5.0	3.5	5.2	3.6	5.3	3.7	5.5	3.8	5.6	4.0	6.0	4.2	6.3	4.4
	23.0	4.5	3.1	4.7	3.3	4.9	3.5	5.1	3.6	5.3	3.7	5.4	3.8	5.6	3.9	5.9	4.1	6.2	4.3
	25.0	4.4	3.1	4.6	3.3	4.9	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.5	3.9	5.9	4.1	6.1	4.3
	27.0	4.4	3.1	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.6	5.3	3.7	5.5	3.8	5.8	4.0	6.0	4.2
	29.0	4.3	3.0	4.5	3.2	4.8	3.3	4.9	3.4	5.1	3.6	5.2	3.7	5.4	3.8	5.7	4.0	6.0	4.2
	31.0	4.2	3.0	4.5	3.1	4.7	3.3	4.9	3.4	5.0	3.5	5.2	3.6	5.3	3.7	5.6	3.9	5.9	4.1
	33.0	4.2	2.9	4.4	3.1	4.6	3.2	4.8	3.3	4.9	3.5	5.1	3.6	5.2	3.7	5.5	3.9	5.8	4.1
	35.0	4.1	2.9	4.3	3.0	4.5	3.2	4.7	3.3	4.9	3.4	5.0	3.5	5.1	3.6	5.4	3.8	5.7	4.0
	37.0	4.0	2.8	4.2	3.0	4.4	3.1	4.6	3.2	4.8	3.3	4.9	3.4	5.0	3.5	5.3	3.7	5.6	3.9
	39.0	3.9	2.8	4.2	2.9	4.4	3.1	4.5	3.2	4.7	3.3	4.8	3.4	4.9	3.5	5.2	3.7	5.5	3.8

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-5-5. Part load performance

Combination

Indoor unit : RAV-SM564SDT-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	320	1500	320
RATING	5000	1910	5300	1500

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	2090	1670	1330	1060	840	650	480	350	350	350
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1910	1520	1220	970	770	590	430	320	320	320
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1720	1370	1100	870	690	530	400	290	290	290
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1540	1230	990	780	620	480	360	260	260	260
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1380	1100	880	700	550	430	320	230	230	230

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1580	1350	1130	920	730	580	450	350	340	340
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1530	1310	1090	890	700	560	440	340	330	330
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1500	1280	1070	870	690	550	430	330	320	320
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1290	1100	920	750	590	470	370	280	270	270
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1270	1080	900	740	580	470	360	280	270	270
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1260	1070	900	730	580	460	360	280	270	270
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1230	1050	870	710	560	450	350	270	260	260
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1220	1040	870	700	560	450	350	270	260	260
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1170	1000	830	680	540	430	340	260	250	250
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	1050	890	750	610	480	380	300	230	220	220

Combination

Indoor unit : RAV-SM564SDT-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3180	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

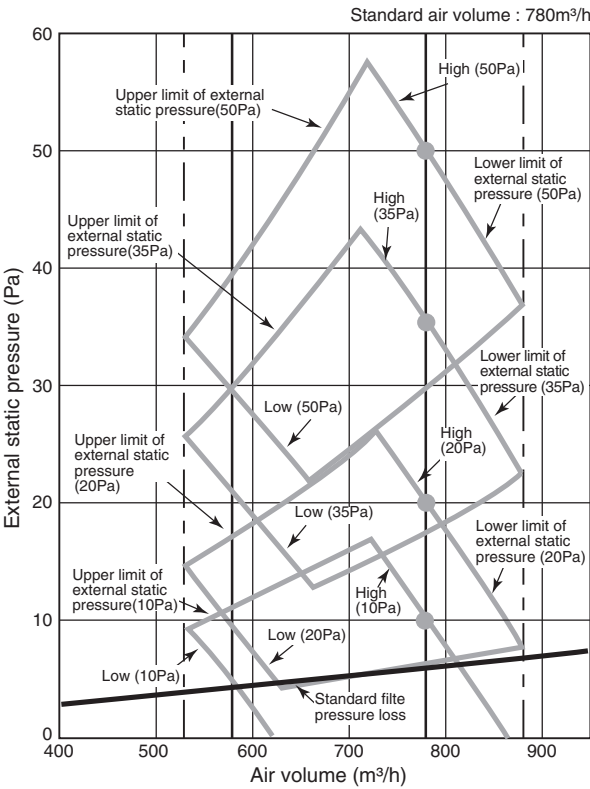
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3460	2760	2240	1810	1450	1130	870	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3180	2540	2060	1670	1330	1040	800	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2880	2300	1870	1510	1210	940	730	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2620	2090	1700	1380	1100	860	660	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2370	1890	1540	1240	990	770	600	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

2-5-6. Fan static characteristics

RAV-SM564SDT-E

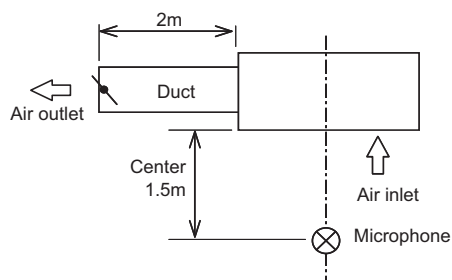


2-5-7. Sound characteristics (NC curve)

RAV-SM564SDT-E

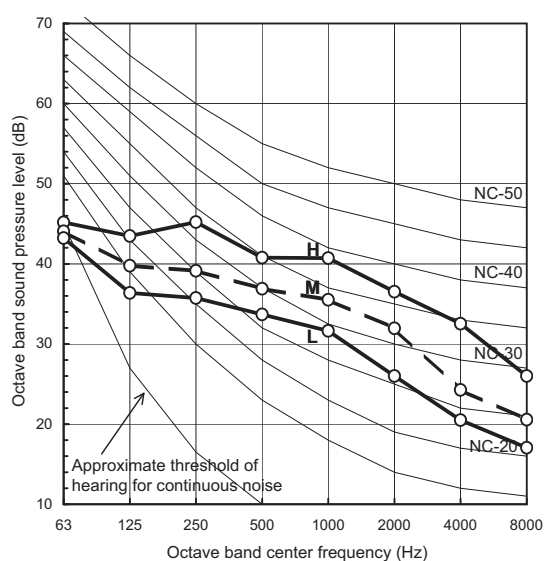
[Measuring location]

Under air intake



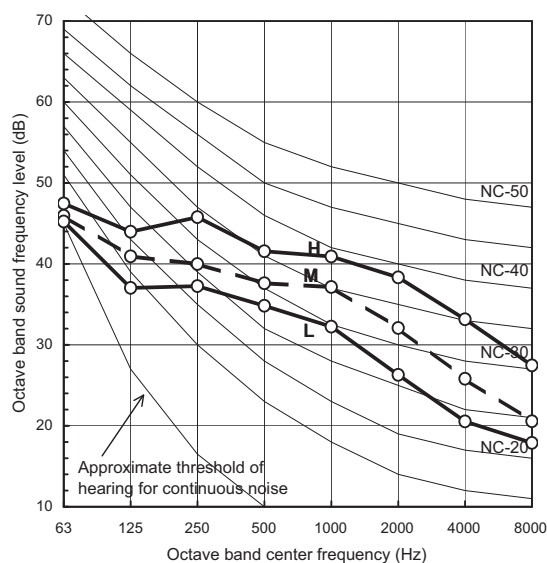
[External static pressure 10Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	45	40	36



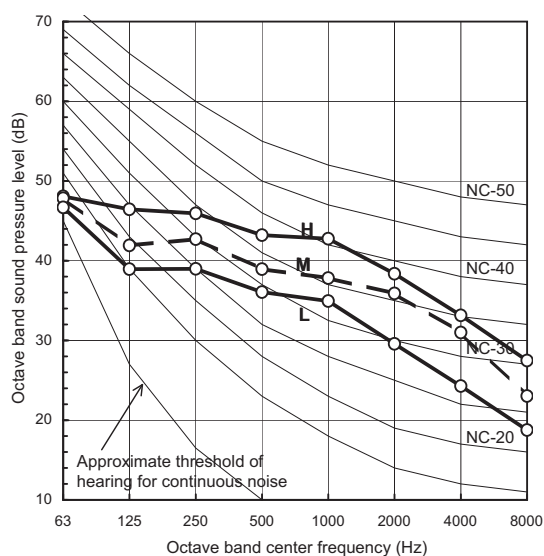
[External static pressure 20Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	46	41	37



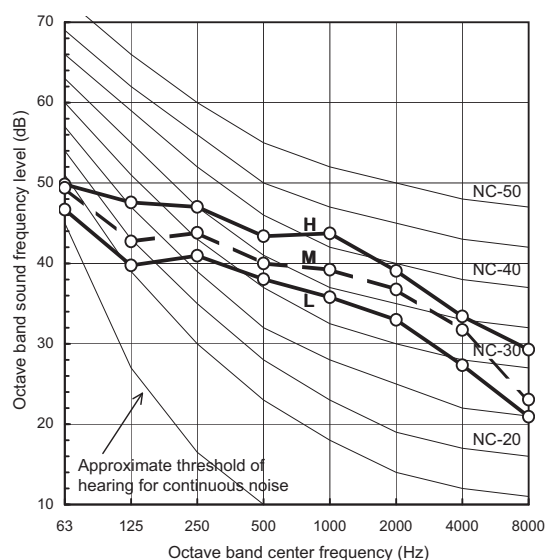
[External static pressure 35Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	47	43	39



[External static pressure 50Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	41



2-7. Ceiling Type (7 series)

2-7-1. Specifications

2-7-2. Dimension

2-7-3. Wiring diagrams

2-7-4. Sensible capacity table

2-7-5. Part load performance

2-7-6. Air throw distance chart

2-7-7. Sound characteristics (NC curve)

2-7-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	567CTP-E	807CTP-E	1107CTP-E	1407CTP-E
	Outdoor unit		RAV-SM	564AT(J)P-E	804AT(J)P-E	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	5.0 (1.5 – 5.6)	6.9 (1.5 – 7.4)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)
Heating capacity			(kW)	5.3 (1.5 – 6.3)	7.7 (1.5 – 9.0)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply				1 phase 220 – 240V 50Hz, 1 phase 220V/60Hz			
Electrical characteristics	Cooling	Running current	(A)	7.54 – 6.92	11.15 – 10.22	15.04 – 13.79	21.37 – 19.59
		Power consumption	(kW)	1.61	2.38	3.11	4.42
		Power factor	(%)	97	97	94	94
		EER		3.11	2.90	3.22	2.74
	Heating	Running current	(A)	6.37 – 5.84	9.98 – 9.15	14.22 – 13.03	16.59 – 15.20
		Power consumption	(kW)	1.36	2.13	2.94	3.43
		Power factor	(%)	97	97	94	94
		COP		3.90	3.62	3.81	3.73
	Maximum current		(A)	12.8	15.1	21.6	22.8
Outer dimension	Main unit	Height	(mm)	235			
		Width	(mm)	950	1270	1586	
		Depth	(mm)	690			
Total weight	Main unit		(kg)	23	29	35	
Heat exchanger				Finned tube			
Fan unit	Fan			Centrifugal fan			
	Standard air flow	H/M/L	(m³/min.)	15.0/12.0/9.0	23.5/16.7/12.5	31.0/22.5/17.0	34.0/25.5/20.0
	Motor		(W)	94		139	
Air filter				Long life filter			
Controller	Attached remote controller			None			
Sound pressure level		H/M/L	(dB•A)	37/35/28	41/36/29	44/38/32	46/41/35
Sound power level		H/M/L	(dB•A)	52/50/43	56/51/44	59/53/47	61/56/50
Connecting pipe		Gas side	(mm)	12.7	15.9		
		Liquid side	(mm)	6.4	9.5		
		Drain port	(mm)	VP20			

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	567CTP-E	807CTP-E
	Indoor unit 2		RAV-SM	567CTP-E	807CTP-E
	Outdoor unit		RAV-SM	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)
Heating capacity			(kW)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply			1 phase 220 – 240V 50Hz, 1 phase 220V/60Hz		
Electrical characteristics	Cooling	Running current (220 – 240V)	(A)	15.04 – 13.79	21.37 – 19.59
		Power consumption	(kW)	3.11	4.42
		Power factor	(%)	94	94
		EER		3.22	2.74
	Heating	Running current (220 – 240V)	(A)	14.22 – 13.03	16.59 – 15.20
		Power consumption	(kW)	2.94	3.43
		Power factor	(%)	94	94
		COP		3.81	3.73
	Maximum current			21.6	22.8
Indoor unit					
Fan unit	Fan		Centrifugal fan		
	Standard air flow	H/M/L	(m³/min.)	15.0/12.0/9.0	23.5/16.7/12.5
	Motor		(W)	94	
Sound pressure level		H/M/L	(dB•A)	37/35/28	41/36/29
Sound power level		H/M/L	(dB•A)	52/50/43	56/51/44
Outdoor unit					
Fan unit	Fan		Propeller fan		
	Standard air flow		(m³/min.)	68	70
	Motor		(W)	100	100
Sound pressure level		Cooling/Heating	(dB•A)	53/54	54/55
Sound power level		Cooling/Heating	(dB•A)	70/71	70/71
Standard pipe length (at rated performance)			(m)	7.5	7.5
Minimum pipe length			(m)	5.0	5.0
Maximum pipe length			(m)	50.0	50.0
Max-height difference			(m)	30.0	30.0
Charge less length			(m)	30.0	30.0
	Additional refrigerant charge			40g/m (31m to 50m)	40g/m (31m to 50m)
Branch-kit				RBC-TWP30E2	RBC-TWP50E2
Connecting pipe	Gas side	Main	(mm)	15.9	
		Sub	(mm)	12.7	
	Liquid side	Main	(mm)	9.5	
		Sub	(mm)	6.4	
	Drain port		(mm)	VP20	
Operation temperature range	Cooling		(CDB)	-15 to 46	
	Heating		(CWB)	-15 to 15	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

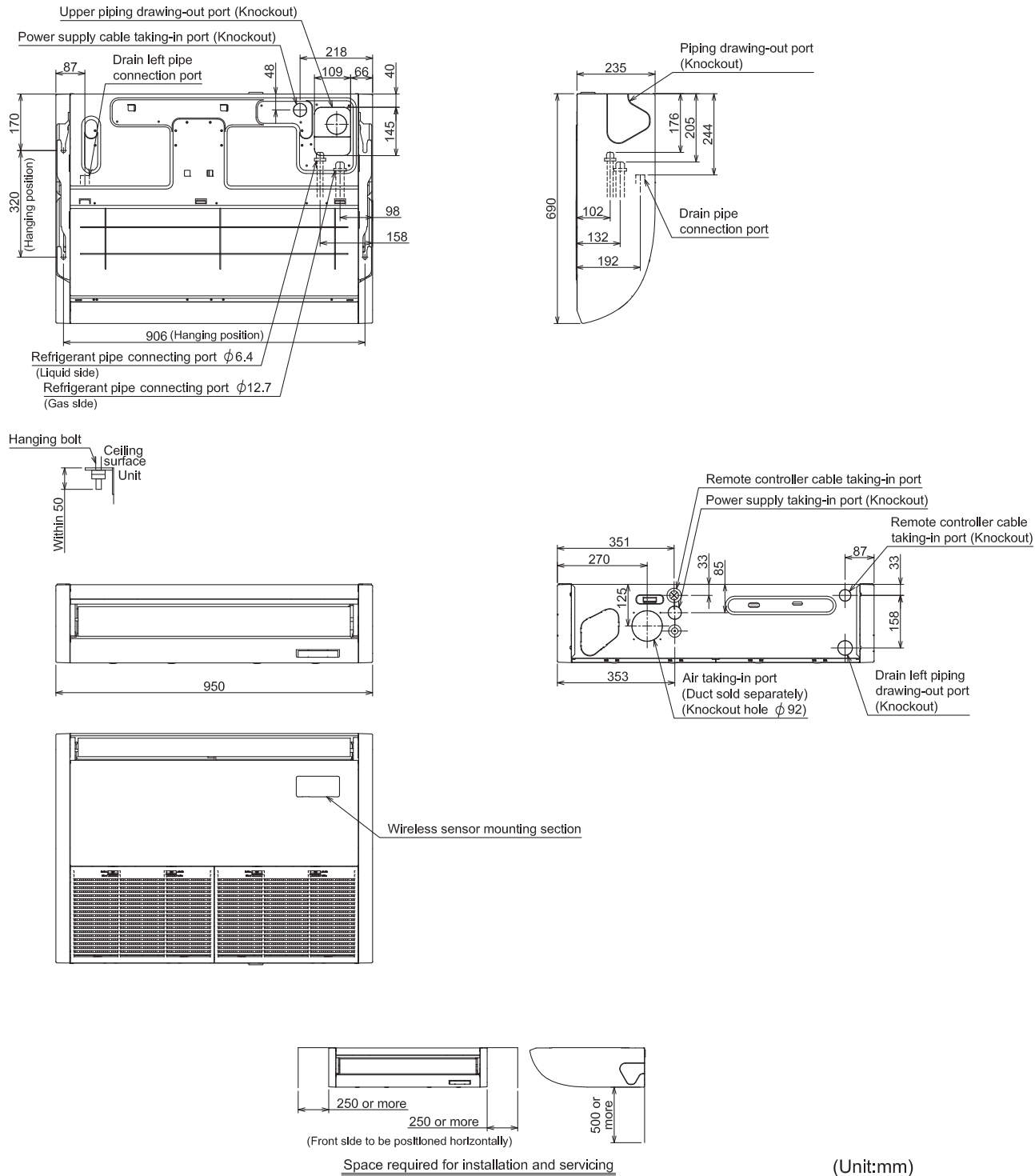
Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

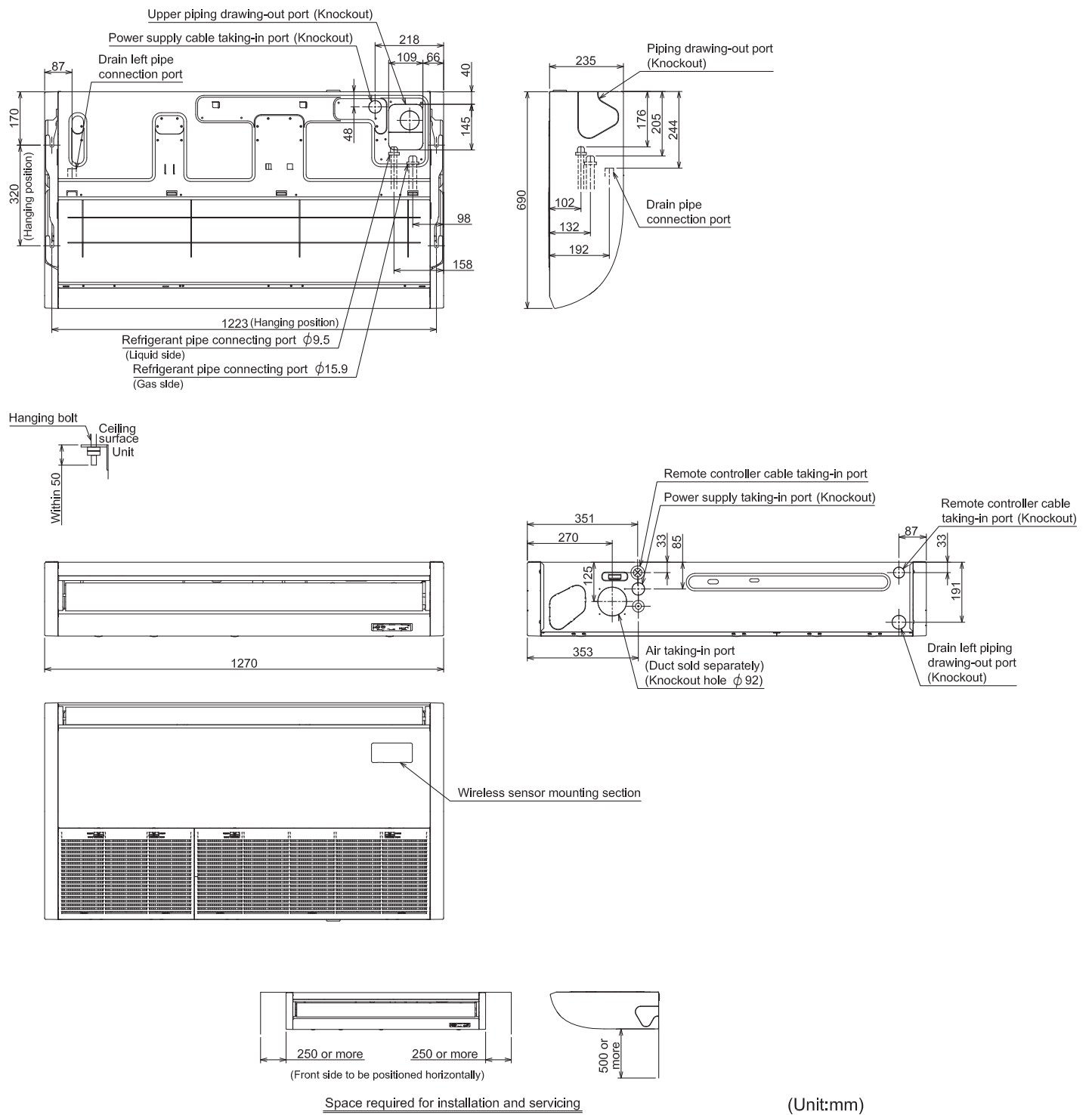
Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-7-2. Dimension

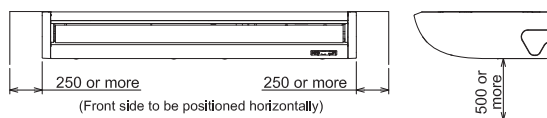
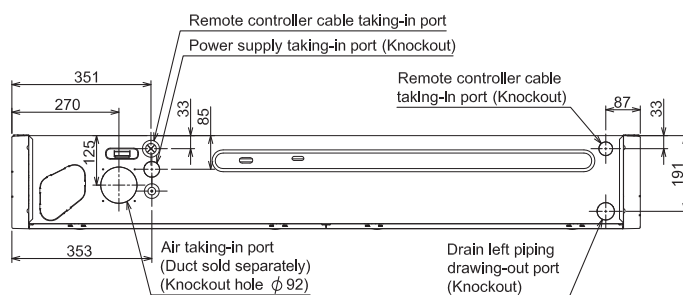
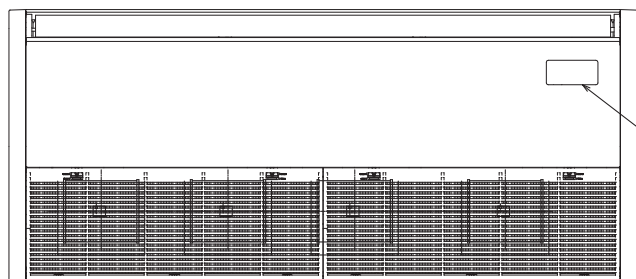
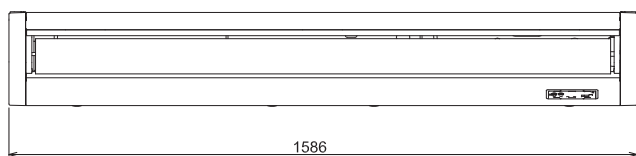
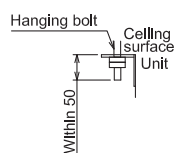
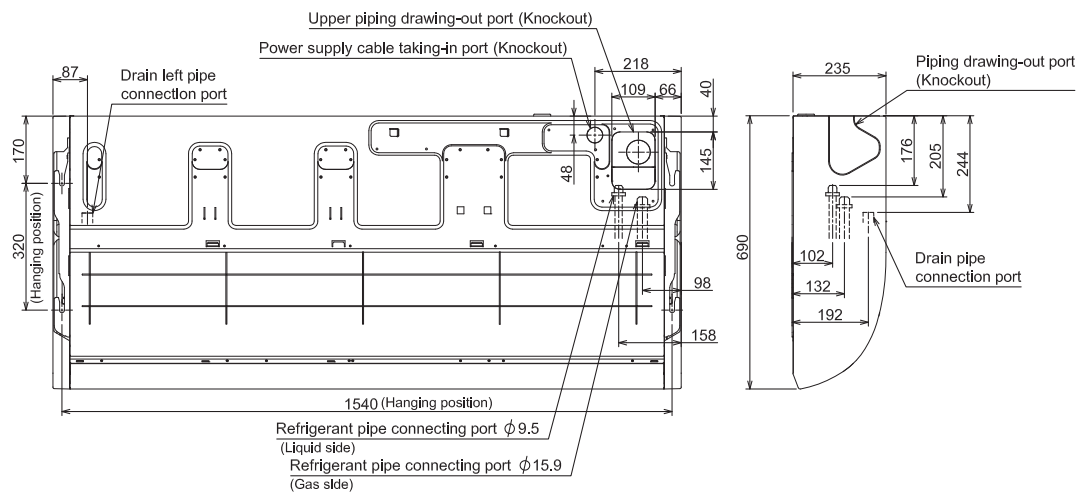
RAV-SM567CTP-E



RAV-SM807CTP-E



RAV-SM1107CTP-E, RAV-SM1407CTP-E

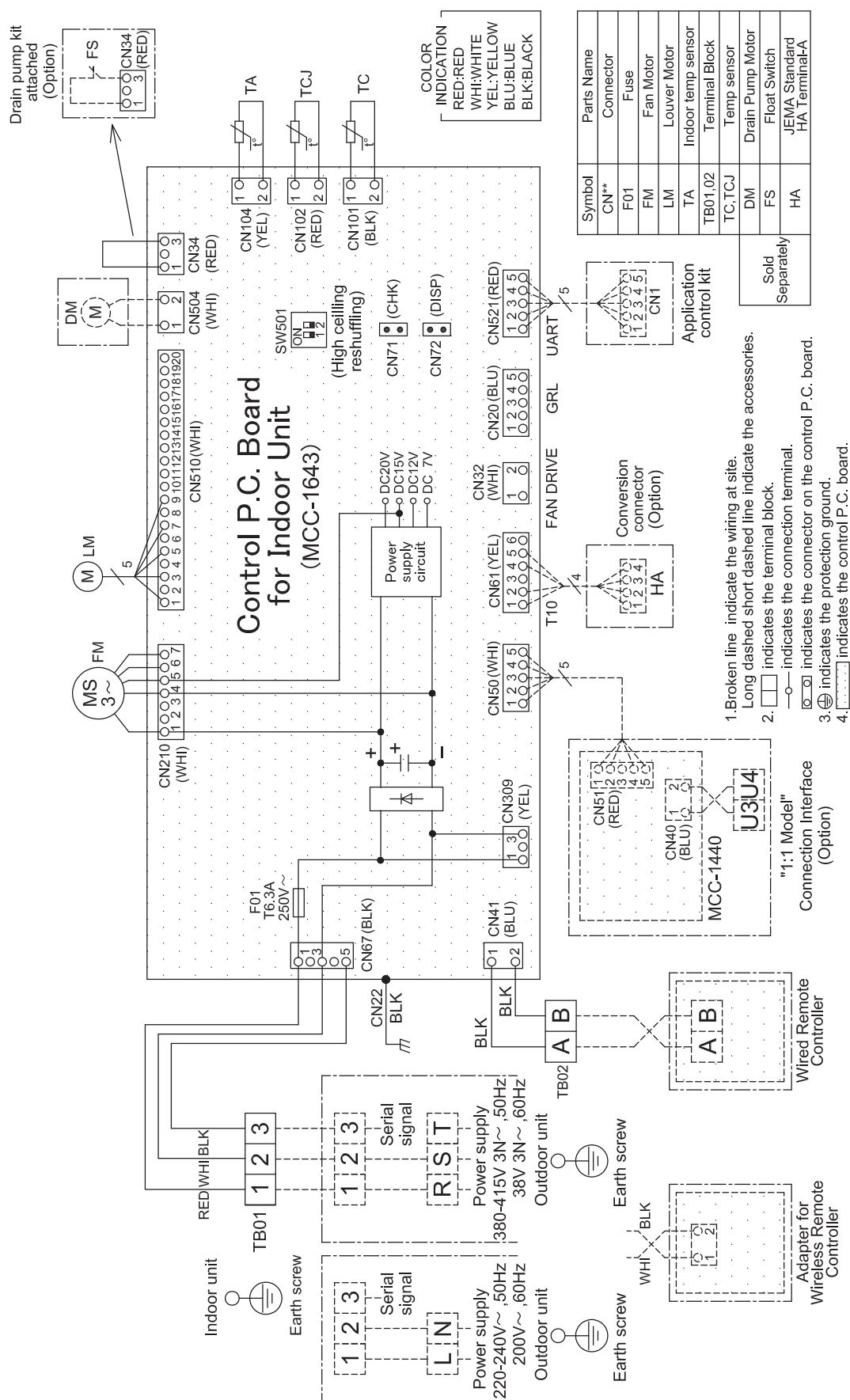


Space required for installation and servicing

(Unit:mm)

2-7-3. Wiring diagrams

RAV-SM567CTP-E, RAV-SM807CTP-E, RAV-SM1107CTP-E, RAV-SM1407CTP-E



2-7-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***CTP-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
567	10.0	4.7	3.5	4.9	3.7	5.2	3.9	5.4	4.0	5.6	4.2	5.7	4.3	5.9	4.4	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.7	4.3	5.8	4.4	6.2	4.6	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.5	4.1	5.6	4.2	5.8	4.4	6.1	4.6	6.4	4.8
	16.0	4.6	3.5	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	18.0	4.6	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.5	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.7	4.3	6.0	4.5	6.3	4.7
	21.0	4.5	3.4	4.7	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.6	4.2	6.0	4.5	6.3	4.7
	23.0	4.5	3.3	4.7	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.5	4.9	3.7	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.4	6.1	4.6
	27.0	4.4	3.3	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.2	5.8	4.3
	35.0	4.1	3.1	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.0	5.6	4.2
	39.0	3.9	3.0	4.2	3.1	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
807	10.0	6.5	4.9	6.8	5.2	7.2	5.4	7.4	5.6	7.7	5.8	7.9	6.0	8.1	6.2	8.6	6.5	9.0	6.8
	12.0	6.4	4.9	6.8	5.1	7.1	5.4	7.4	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.5	6.5	8.9	6.8
	14.0	6.4	4.9	6.7	5.1	7.1	5.4	7.3	5.6	7.6	5.8	7.8	5.9	8.0	6.1	8.5	6.4	8.9	6.7
	16.0	6.4	4.8	6.7	5.1	7.0	5.3	7.3	5.5	7.5	5.7	7.7	5.9	8.0	6.0	8.4	6.4	8.8	6.7
	18.0	6.3	4.8	6.6	5.0	7.0	5.3	7.2	5.5	7.5	5.7	7.7	5.8	7.9	6.0	8.4	6.4	8.7	6.6
	20.0	6.3	4.8	6.6	5.0	6.9	5.2	7.1	5.4	7.4	5.6	7.6	5.8	7.8	5.9	8.3	6.3	8.7	6.6
	21.0	6.2	4.7	6.5	5.0	6.9	5.2	7.1	5.4	7.4	5.6	7.6	5.8	7.8	5.9	8.3	6.3	8.6	6.6
	23.0	6.2	4.7	6.5	4.9	6.8	5.2	7.0	5.4	7.3	5.5	7.5	5.7	7.7	5.9	8.2	6.2	8.5	6.5
	25.0	6.1	4.6	6.4	4.9	6.7	5.1	7.0	5.3	7.2	5.5	7.4	5.6	7.6	5.8	8.1	6.1	8.5	6.4
	27.0	6.0	4.6	6.3	4.8	6.6	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.5	5.7	8.0	6.1	8.3	6.3
	29.0	5.9	4.5	6.2	4.7	6.6	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.4	5.7	7.9	6.0	8.2	6.3
	31.0	5.9	4.4	6.2	4.7	6.5	4.9	6.7	5.1	6.9	5.3	7.1	5.4	7.3	5.6	7.8	5.9	8.1	6.2
	33.0	5.8	4.4	6.1	4.6	6.4	4.8	6.6	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.6	5.8	8.0	6.1
	35.0	5.7	4.3	6.0	4.5	6.3	4.8	6.5	4.9	6.7	5.1	6.9	5.2	7.1	5.4	7.5	5.7	7.9	6.0
	37.0	5.6	4.2	5.9	4.4	6.1	4.7	6.4	4.8	6.6	5.0	6.8	5.1	7.0	5.3	7.4	5.6	7.7	5.9
	39.0	5.4	4.1	5.7	4.4	6.0	4.6	6.2	4.7	6.4	4.9	6.6	5.0	6.8	5.2	7.2	5.5	7.6	5.7

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1107	10.0	9.4	7.1	9.9	7.5	10.4	7.9	10.7	8.2	11.1	8.4	11.4	8.7	11.8	8.9	12.5	9.5	13.0	9.9
	12.0	9.3	7.1	9.8	7.5	10.3	7.8	10.7	8.1	11.0	8.4	11.4	8.6	11.7	8.9	12.4	9.4	12.9	9.8
	14.0	9.3	7.0	9.8	7.4	10.2	7.8	10.6	8.1	11.0	8.3	11.3	8.6	11.6	8.8	12.3	9.3	12.9	9.8
	16.0	9.2	7.0	9.7	7.4	10.2	7.7	10.5	8.0	10.9	8.3	11.2	8.5	11.5	8.8	12.2	9.3	12.8	9.7
	18.0	9.1	6.9	9.6	7.3	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.5	11.4	8.7	12.1	9.2	12.7	9.6
	20.0	9.1	6.9	9.5	7.2	10.0	7.6	10.4	7.9	10.7	8.1	11.0	8.4	11.3	8.6	12.0	9.1	12.6	9.6
	21.0	9.0	6.9	9.5	7.2	10.0	7.6	10.3	7.8	10.7	8.1	11.0	8.3	11.3	8.6	12.0	9.1	12.5	9.5
	23.0	8.9	6.8	9.4	7.1	9.9	7.5	10.2	7.8	10.6	8.0	10.9	8.3	11.2	8.5	11.8	9.0	12.4	9.4
	25.0	8.8	6.7	9.3	7.1	9.8	7.4	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.4	11.7	8.9	12.2	9.3
	27.0	8.7	6.6	9.2	7.0	9.6	7.3	10.0	7.6	10.3	7.8	10.6	8.1	10.9	8.3	11.6	8.8	12.1	9.2
	29.0	8.6	6.5	9.1	6.9	9.5	7.2	9.8	7.5	10.2	7.7	10.5	8.0	10.8	8.2	11.4	8.7	11.9	9.1
	31.0	8.5	6.4	8.9	6.8	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.9	10.6	8.1	11.3	8.6	11.8	8.9
	33.0	8.4	6.3	8.8	6.7	9.2	7.0	9.6	7.3	9.9	7.5	10.2	7.7	10.5	8.0	11.1	8.4	11.6	8.8
	35.0	8.2	6.2	8.6	6.6	9.1	6.9	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.8	10.9	8.3	11.4	8.7
	37.0	8.1	6.1	8.5	6.4	8.9	6.8	9.2	7.0	9.5	7.2	9.8	7.5	10.1	7.7	10.7	8.1	11.2	8.5
	39.0	7.9	6.0	8.3	6.3	8.7	6.6	9.0	6.9	9.3	7.1	9.6	7.3	9.9	7.5	10.5	8.0	10.9	8.3

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1407	10.0	11.4	8.3	12.0	8.7	12.5	9.2	13.0	9.5	13.4	9.8	13.8	10.1	14.2	10.4	15.1	11.0	15.8	11.5
	12.0	11.3	8.2	11.9	8.7	12.5	9.1	12.9	9.4	13.4	9.7	13.7	10.0	14.1	10.3	15.0	10.9	15.7	11.4
	14.0	11.2	8.2	11.8	8.6	12.4	9.0	12.8	9.4	13.3	9.7	13.7	10.0	14.1	10.3	14.9	10.9	15.6	11.4
	16.0	11.1	8.1	11.7	8.6	12.3	9.0	12.7	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.8	10.8	15.5	11.3
	18.0	11.1	8.1	11.6	8.5	12.2	8.9	12.6	9.2	13.1	9.5	13.5	9.8	13.8	10.1	14.7	10.7	15.3	11.2
	20.0	11.0	8.0	11.5	8.4	12.1	8.8	12.5	9.2	13.0	9.5	13.3	9.7	13.7	10.0	14.5	10.6	15.2	11.1
	21.0	10.9	8.0	11.5	8.4	12.1	8.8	12.5	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.5	10.6	15.1	11.0
	23.0	10.8	7.9	11.4	8.3	11.9	8.7	12.4	9.0	12.8	9.3	13.2	9.6	13.5	9.9	14.3	10.5	15.0	10.9
	25.0	10.7	7.8	11.2	8.2	11.8	8.6	12.2	8.9	12.6	9.2	13.0	9.5	13.4	9.8	14.2	10.3	14.8	10.8
	27.0	10.6	7.7	11.1	8.1	11.7	8.5	12.1	8.8	12.5	9.1	12.9	9.4	13.2	9.6	14.0	10.2	14.6	10.7
	29.0	10.4	7.6	11.0	8.0	11.5	8.4	11.9	8.7	12.3	9.0	12.7	9.3	13.0	9.5	13.8	10.1	14.4	10.5
	31.0	10.3	7.5	10.8	7.9	11.3	8.3	11.7	8.6	12.1	8.9	12.5	9.1	12.9	9.4	13.6	9.9	14.2	10.4
	33.0	10.1	7.4	10.6	7.8	11.2	8.1	11.6	8.4	12.0	8.7	12.3	9.0	12.7	9.2	13.4	9.8	14.0	10.2
	35.0	9.9	7.3	10.5	7.6	11.0	8.0	11.4	8.3	11.8	8.6	12.1	8.8	12.4	9.1	13.2	9.6	13.8	10.1
	37.0	9.8	7.1	10.3	7.5	10.8	7.9	11.1	8.1	11.5	8.4	11.9	8.7	12.2	8.9	12.9	9.4	13.5	9.9
39.0	9.6	7.0	10.0	7.3	10.5	7.7	10.9	8.0	11.3	8.2	11.6	8.5	12.0	8.7	12.7	9.2	13.2	9.7	

2-7-5. Part load performance

Combination

Indoor unit : RAV-SM567CTP-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	290	1500	290
RATING	5000	1610	5300	1360

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	1760	1400	1120	890	710	540	420	320	320	320
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1610	1290	1030	820	650	500	380	290	290	290
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1450	1160	930	740	580	450	340	260	260	260
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1300	1040	830	660	520	400	310	230	230	230
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1160	930	740	590	470	360	270	210	210	210

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1440	1230	1020	830	670	530	410	320	310	310
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1390	1180	990	800	640	510	400	310	300	300
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1360	1160	970	790	630	500	390	300	290	290
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1170	1000	830	680	540	430	340	260	250	250
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1150	980	820	670	530	420	330	250	240	240
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1140	970	810	660	530	420	330	250	240	240
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1110	950	790	640	520	410	320	250	240	240
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1100	940	780	640	510	410	320	240	230	230
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1060	910	760	610	490	390	300	230	220	220
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	950	810	680	550	440	350	270	210	200	200

Combination

Indoor unit : RAV-SM807CTP-E

Outdoor unit : RAV-SM804AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	290	1500	290
RATING	6900	2380	7700	2130

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6510	5860	5210	4560	3910	3250	2610	1960	1420	1420
	W	2600	2130	1680	1280	960	720	560	430	340	340
35	Q	6900	6210	5520	4830	4140	3450	2760	2070	1500	1500
	W	2380	1950	1540	1170	880	660	510	390	290	290
30	Q	7290	6560	5840	5100	4380	3640	2920	2190	1590	1590
	W	2170	1780	1400	1070	800	600	470	360	280	280
25	Q	7580	6820	6070	5310	4550	3790	3030	2280	1650	1650
	W	1970	1610	1270	970	720	550	420	320	260	260
20	Q	7690	6920	6160	5380	4620	3840	3080	2310	1670	1670
	W	1760	1450	1140	870	650	490	380	290	230	230

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4560	3640	2730	1820	1780
	W	2320	1940	1590	1280	1000	770	600	460	330	320
10	Q	8260	7440	6610	5780	4960	4130	3310	2470	1650	1610
	W	2210	1860	1520	1220	950	740	570	440	310	300
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	2130	1790	1460	1170	920	710	550	420	300	290
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1180	1160
	W	1830	1530	1260	1010	790	610	470	360	260	250
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	1800	1510	1240	990	780	600	470	360	250	240
0	Q	5710	5140	4570	4000	3430	2860	2290	1710	1140	1110
	W	1790	1500	1230	980	770	600	460	350	250	240
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	1740	1460	1200	960	750	580	450	340	250	240
-7	Q	5420	4880	4340	3800	3250	2710	2170	1620	1080	1060
	W	1730	1450	1190	950	740	580	450	340	240	230
-10	Q	5010	4510	4010	3500	3000	2510	2000	1500	1000	980
	W	1660	1390	1140	920	720	550	430	330	230	220
-15	Q	3850	3470	3080	2700	2310	1930	1540	1150	770	750
	W	1490	1240	1020	820	640	500	380	290	210	200

Combination

Indoor unit : RAV-SM1107CTP-E

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3110	11200	2940

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3790	2840	2840	2840
	W	3380	2700	2190	1770	1420	1100	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3110	2480	2020	1630	1300	1010	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2820	2250	1830	1480	1180	920	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4350	3260	3260	3260
	W	2570	2050	1670	1350	1070	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4470	3350	3350	3350
	W	2320	1850	1500	1220	970	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3230	2770	2330	1900	1520	1200	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3070	2640	2220	1810	1440	1140	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2940	2530	2120	1730	1380	1090	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2520	2170	1820	1490	1190	940	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2490	2140	1800	1470	1170	920	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2120	1780	1450	1160	910	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2410	2070	1740	1420	1130	890	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2380	2050	1720	1400	1120	880	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1660	1350	1080	850	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2050	1760	1480	1210	960	760	600	460	420	420

Combination

Indoor unit : RAV-SM1407CTP-E

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3430

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3760	3170	2640	2170	1750	1390	1070	810	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3580	3010	2510	2060	1670	1320	1020	770	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3430	2890	2400	1980	1600	1260	970	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2940	2480	2060	1700	1370	1080	840	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2900	2440	2030	1670	1350	1070	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2870	2420	2010	1660	1340	1060	820	620	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2810	2360	1970	1620	1310	1030	800	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2780	2340	1950	1600	1290	1020	790	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2680	2250	1870	1540	1250	990	760	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2390	2010	1680	1380	1110	880	680	510	420	420

Combination

Indoor unit : RAV-SM567CTP-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3110	11200	2940

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3790	2840	2840	2840
	W	3380	2700	2190	1770	1420	1100	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3110	2480	2020	1630	1300	1010	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2820	2250	1830	1480	1180	920	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4350	3260	3260	3260
	W	2570	2050	1670	1350	1070	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4470	3350	3350	3350
	W	2320	1850	1500	1220	970	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3230	2770	2330	1900	1520	1200	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3070	2640	2220	1810	1440	1140	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2940	2530	2120	1730	1380	1090	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2520	2170	1820	1490	1190	940	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2490	2140	1800	1470	1170	920	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2120	1780	1450	1160	910	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2410	2070	1740	1420	1130	890	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2380	2050	1720	1400	1120	880	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1660	1350	1080	850	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2050	1760	1480	1210	960	760	600	460	420	420

Combination

Indoor unit : RAV-SM807CTP-E x 2 (Twin)

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3430

Q: Capacity in W
W: Power Consumption in W

Cooling

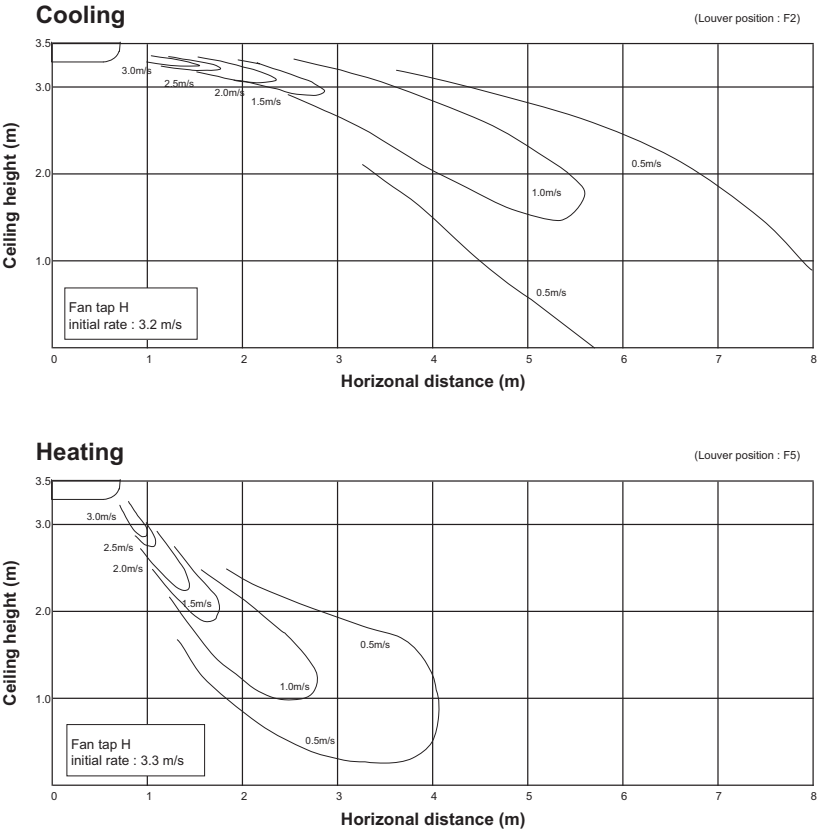
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

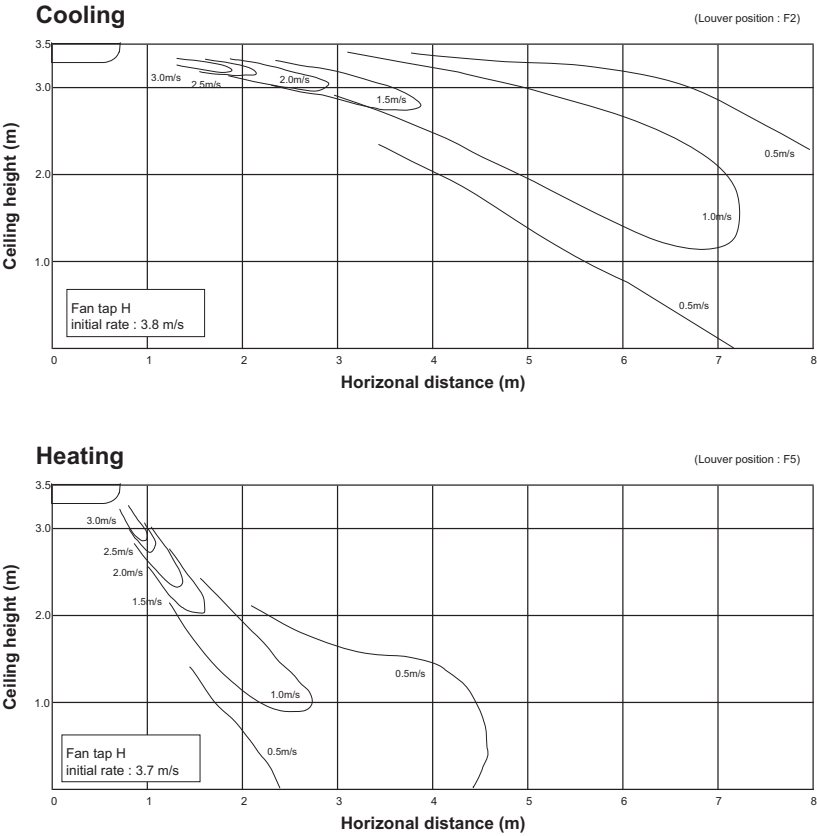
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3760	3170	2640	2170	1750	1390	1070	810	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3580	3010	2510	2060	1670	1320	1020	770	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3430	2890	2400	1980	1600	1260	970	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2940	2480	2060	1700	1370	1080	840	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2900	2440	2030	1670	1350	1070	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2870	2420	2010	1660	1340	1060	820	620	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2810	2360	1970	1620	1310	1030	800	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2780	2340	1950	1600	1290	1020	790	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2680	2250	1870	1540	1250	990	760	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2390	2010	1680	1380	1110	880	680	510	420	420

2-7-6. Air throw distance chart

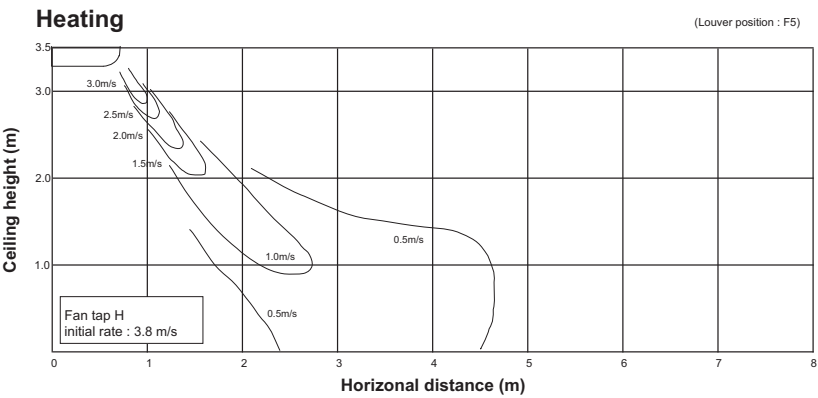
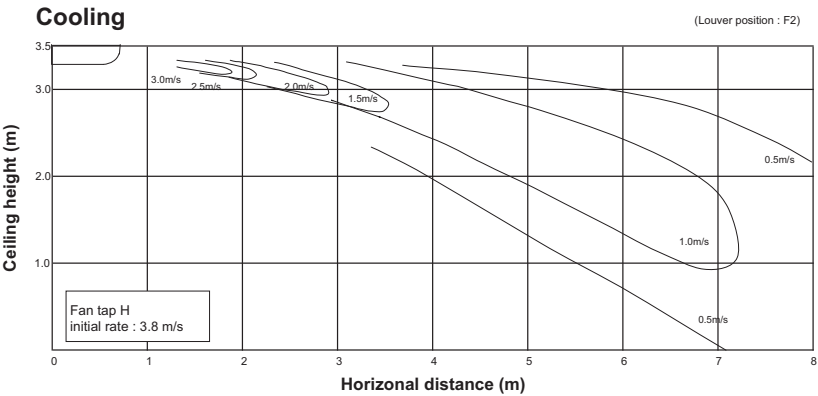
RAV-SM567CTP-E



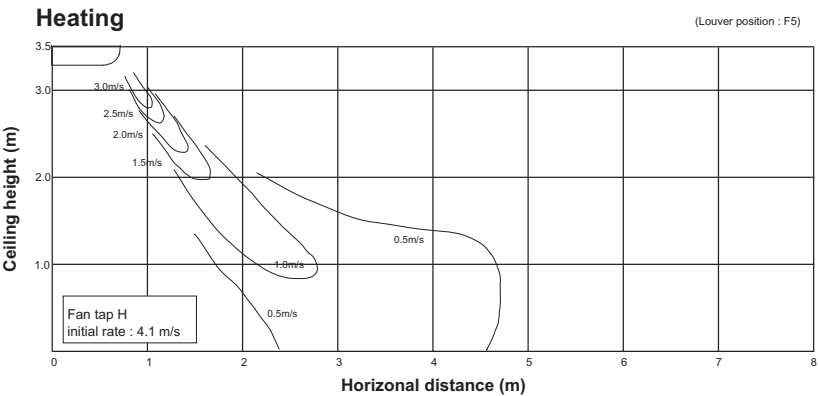
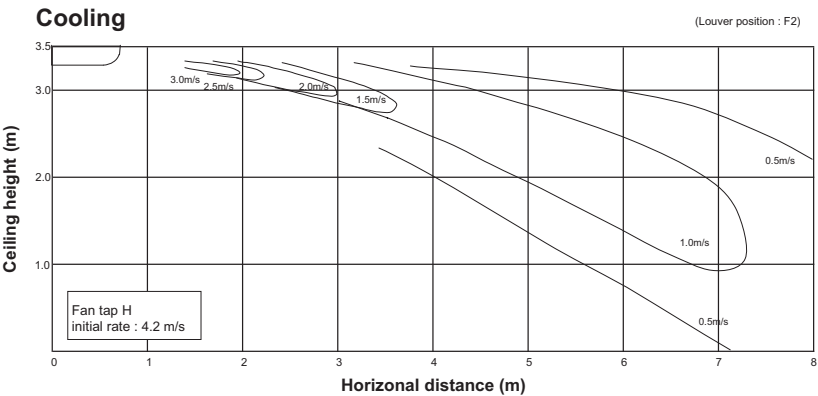
RAV-SM807CTP-E



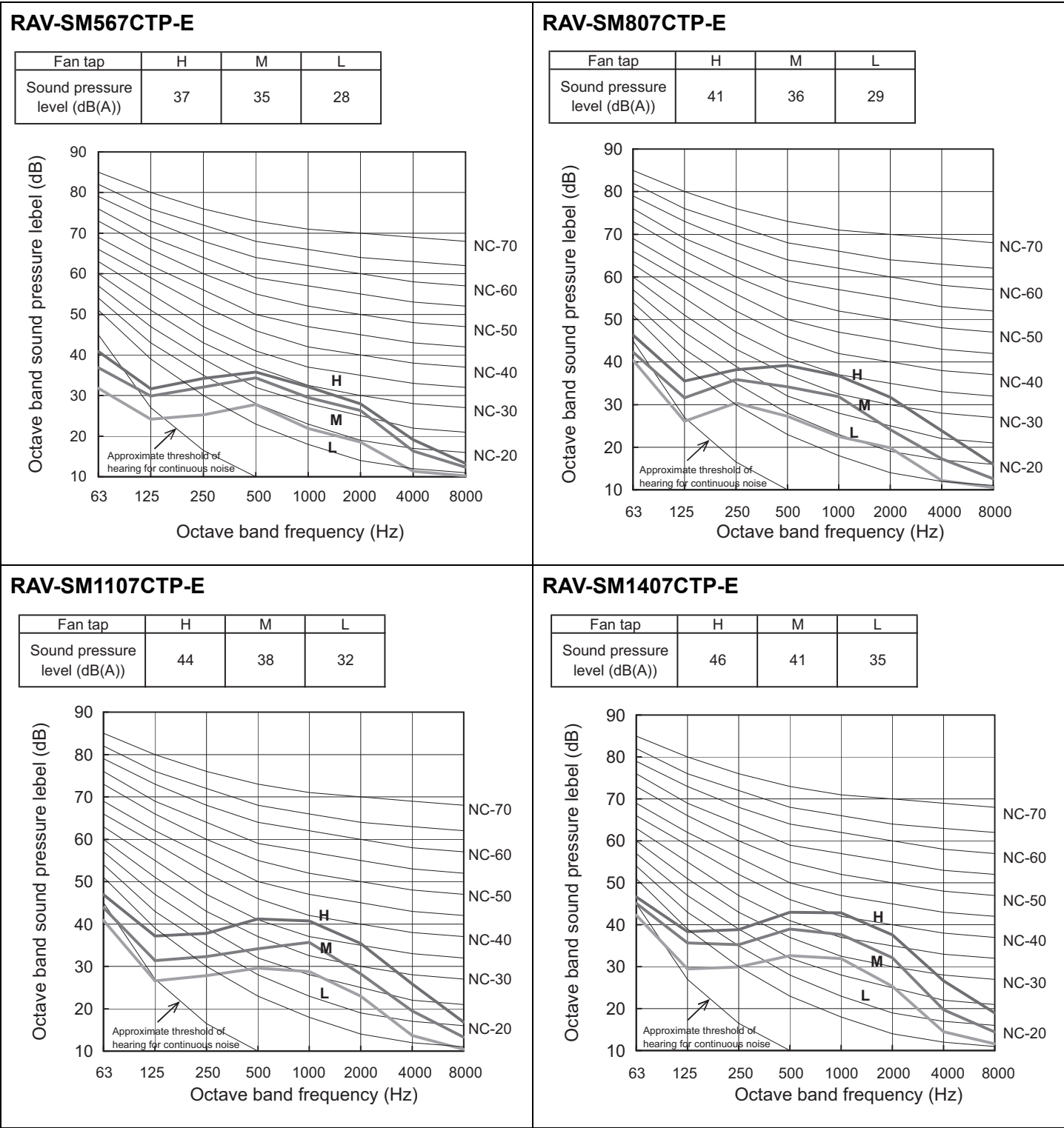
RAV-SM1107CTP-E



RAV-SM1407CTP-E



2-7-7. Sound characteristics (NC curve)



2-8. High Wall Type (6 series)

2-8-1. Specifications

2-8-2. Dimension

2-8-3. Wiring diagrams

2-8-4. Sensible capacity table

2-8-5. Part load performance

2-8-6. Air throw distance chart

2-8-7. Sound characteristics (NC curve)

2-8-1. Specifications

<Single type>

Model	Indoor unit RAV-SM		566KRT-E	806KRT-E
	Outdoor unit RAV-SM		564AT(J)P-E	804AT(J)P-E
Cooling capacity	(kW)		5.0 (1.5 – 5.6)	6.7 (1.5 – 7.0)
Heating capacity	(kW)		5.3 (1.5 – 6.3)	7.7 (1.5 – 9.0)
Power supply			1 phase 220V – 240V/50Hz, 1 phase 220V/60Hz	
Electrical characteristics	Cooling	Running current (A)	7.78 – 7.13	11.43 – 10.48
		Power consumption (kW)	1.66	2.44
		Power factor (%)	97	97
		EER	3.01	2.75
	Heating	Running current (A)	7.26 – 6.66	12.23 – 11.21
		Power consumption (kW)	1.55	2.61
		Power factor (%)	97	97
		COP	3.42	2.95
	Maximum current (A)		12.3	15.5
Appearance	Main unit		Pure white	
Outer dimension	Main unit	Height (mm)	320	
		Width (mm)	1050	
		Depth (mm)	228	
Total weight	Main unit (kg)		12	
Fan unit	Fan		Cross flow fan	
	Standard air flow	H/M/L (m³/min.)	14.0/12.5/11.0	17.0/12.5/11.0
	Motor (W)		30	
Controller			WH-L11SE	
Connecting pipe	Gas side (mm)		12.7	15.9
	Liquid side (mm)		6.4	9.5
	Drain port (mm)		VP16	
Sound pressure level	H/M/L	(dB•A)	42/39/36	47/41/36
Sound power level	H/M/L	(dB•A)	57/54/51	62/56/51

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	566KRT-E	806KRT-E
	Indoor unit 2		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SM	1104AT(J)P-E	1404AT(J)P-E
Cooling capacity			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.0)
Heating capacity			(kW)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz		
Electrical characteristics	Cooling	Running current	(A)	15.14 – 13.87	22.78 – 20.88
		Power consumption	(kW)	3.13	4.71
		Power factor	(%)	94	94
		EER		3.19	2.57
	Heating	Running current	(A)	14.46 – 13.25	18.38 – 16.84
		Power consumption	(kW)	2.99	3.80
		Power factor	(%)	94	94
		COP		3.75	3.37
	Maximum current		(A)	20.3	22.8
Indoor unit					
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m³/min.)	14.0/12.5/11.0	17.0/12.5/11.0	
	Motor (W)		30		
Sound pressure level		H/M/L (dB•A)	42/39/36	47/41/36	
Sound power level		H/M/L (dB•A)	57/54/51	62/56/51	
Outdoor unit					
Refrigerant pipe	Standard length (m)		7.5		
	Max. total length (m)		50		
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		
		Outdoor higher (m)	30		
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		68	70	
	Motor (W)		100		
Connecting pipe	Gas side	Main (mm)	15.9		
		Sub (mm)	12.7		
	Liquid side	Main (mm)	9.5		
		Sub (mm)	6.4		
Sound pressure level		Cooling/Heating (dB•A)	53/54	54/55	
Sound power level		Cooling/Heating (dB•A)	70/71	70/71	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

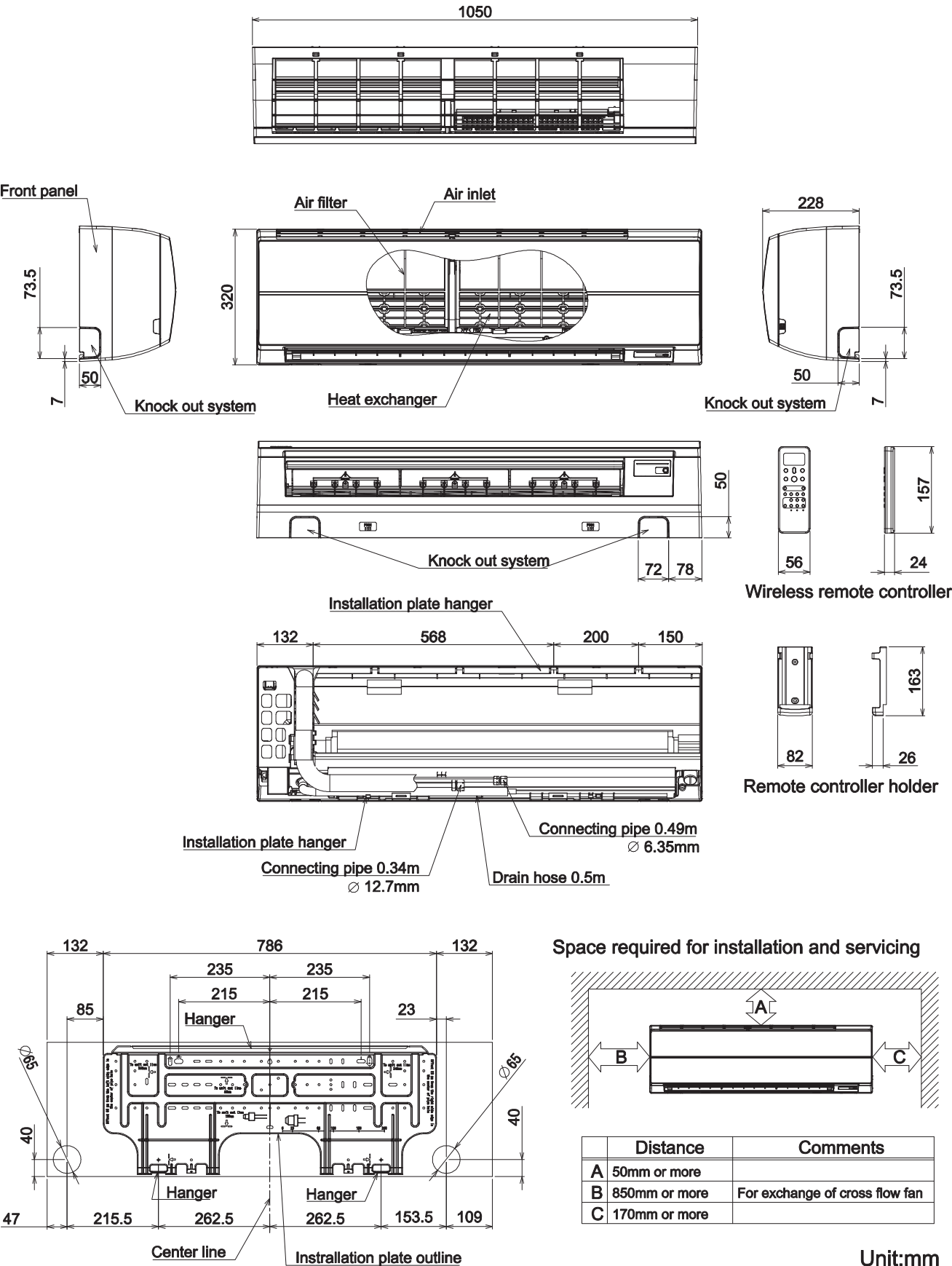
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

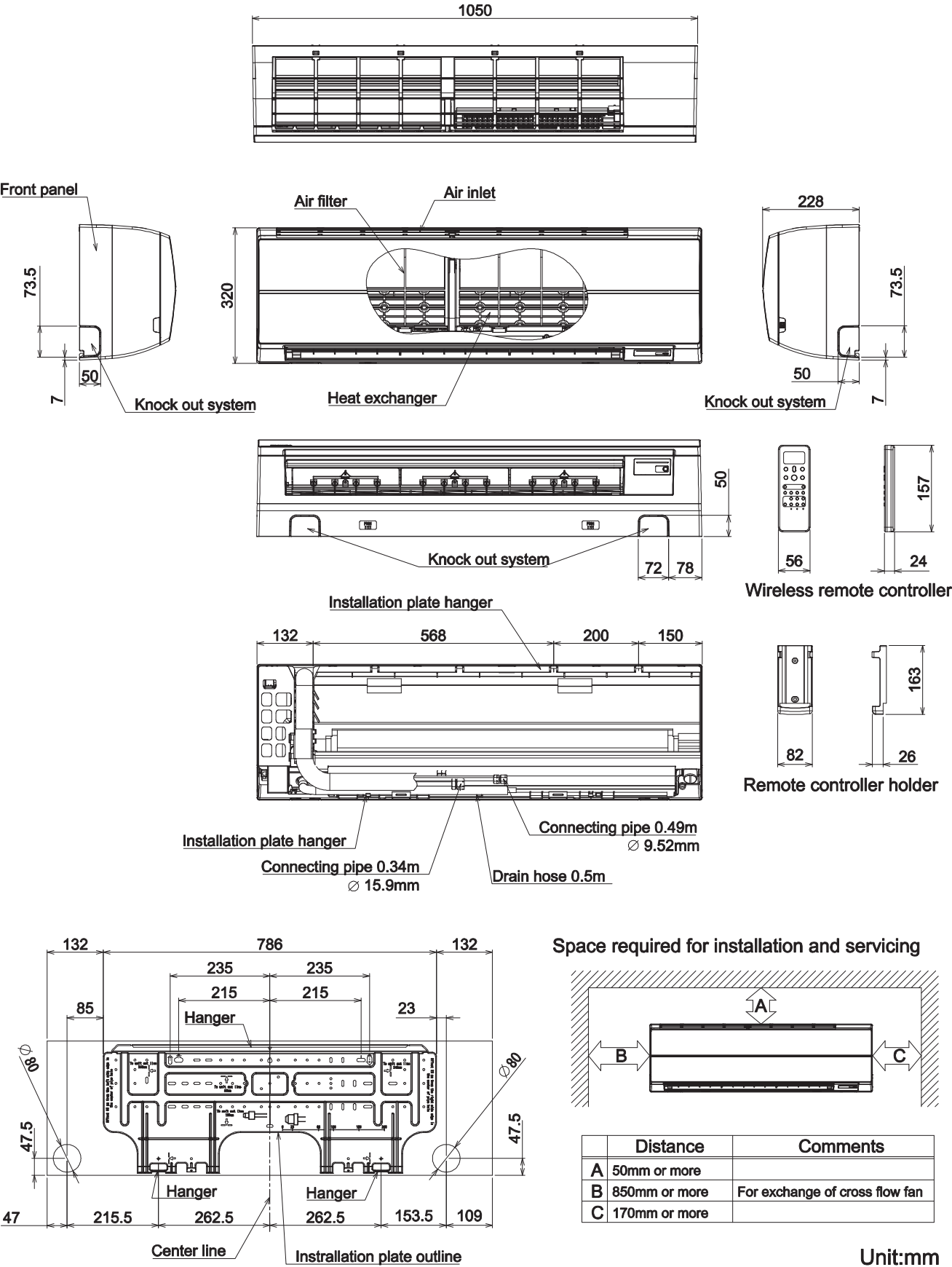
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-8-2. Dimension

RAV-SM566KRT-E

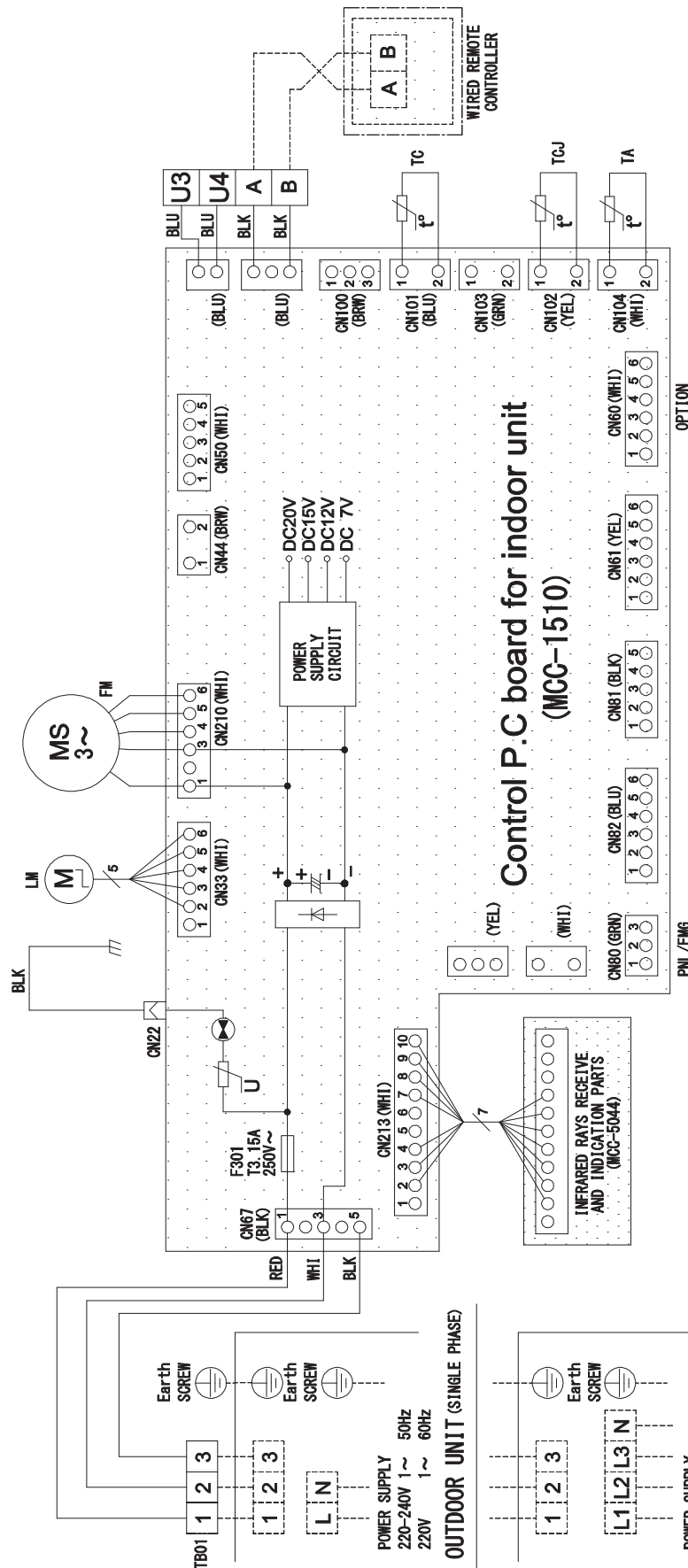


RAV-SM806KRT-E



2-8-3. Wiring diagrams

RAV-SM566KRT-E, RAV-SM806KRT-E



1. Broken line indicates the wiring at site. Long dashed short dashed line indicates the accessories.
2.  indicates the terminal block.
3.  indicates the connection terminal.
4.  indicates the connector on the control P.C. board.
5.  indicates the protection ground.
6.  indicates the control P.C. board.

COLOR IDENTIFICATION

RED : RED
WHI : WHITE
YEL : YELLOW
BLU : BLUE
BLK : BLACK
GRY : GRAY
PNK : PINK
ORN : ORANGE
BRW : BROWN
GRN : GREEN

Symbol	Parts Name
CN#	Connector
F301	Fuse
FM	Fan Motor
LM	Louver Motor
TA	Indoor temp sensor
TB01,02	Terminal Block
TC,TCJ	Temp sensor

2-8-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***KRT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.4	4.9	3.6	5.2	3.7	5.4	3.9	5.6	4.0	5.7	4.1	5.9	4.2	6.2	4.5	6.5	4.7
	12.0	4.7	3.4	4.9	3.5	5.2	3.7	5.3	3.8	5.5	4.0	5.7	4.1	5.8	4.2	6.2	4.5	6.5	4.7
	14.0	4.6	3.3	4.9	3.5	5.1	3.7	5.3	3.8	5.5	3.9	5.6	4.1	5.8	4.2	6.1	4.4	6.4	4.6
	16.0	4.6	3.3	4.8	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.8	4.2	6.1	4.4	6.4	4.6
	18.0	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.6	4.0	5.7	4.1	6.1	4.4	6.3	4.6
	20.0	4.5	3.3	4.8	3.4	5.0	3.6	5.2	3.7	5.4	3.9	5.5	4.0	5.7	4.1	6.0	4.3	6.3	4.5
	21.0	4.5	3.2	4.7	3.4	5.0	3.6	5.2	3.7	5.3	3.8	5.5	4.0	5.6	4.1	6.0	4.3	6.3	4.5
	23.0	4.5	3.2	4.7	3.4	4.9	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.9	4.3	6.2	4.5
	25.0	4.4	3.2	4.6	3.3	4.9	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.5	4.0	5.9	4.2	6.1	4.4
	27.0	4.4	3.1	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.5	3.9	5.8	4.2	6.0	4.4
	29.0	4.3	3.1	4.5	3.3	4.8	3.4	4.9	3.5	5.1	3.7	5.2	3.8	5.4	3.9	5.7	4.1	6.0	4.3
	31.0	4.2	3.1	4.5	3.2	4.7	3.4	4.9	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.6	4.1	5.9	4.2
	33.0	4.2	3.0	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.6	5.1	3.7	5.2	3.8	5.5	4.0	5.8	4.2
	35.0	4.1	3.0	4.3	3.1	4.5	3.3	4.7	3.4	4.9	3.5	5.0	3.6	5.1	3.7	5.4	3.9	5.7	4.1
	37.0	4.0	2.9	4.2	3.1	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.5	5.0	3.6	5.3	3.8	5.6	4.0
	39.0	3.9	2.8	4.2	3.0	4.4	3.1	4.5	3.2	4.7	3.4	4.8	3.5	4.9	3.6	5.2	3.8	5.5	3.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.3	4.4	6.6	4.6	6.9	4.9	7.2	5.0	7.4	5.2	7.7	5.4	7.9	5.5	8.3	5.9	8.7	6.1
	12.0	6.3	4.4	6.6	4.6	6.9	4.8	7.1	5.0	7.4	5.2	7.6	5.3	7.8	5.5	8.3	5.8	8.7	6.1
	14.0	6.2	4.4	6.5	4.6	6.9	4.8	7.1	5.0	7.3	5.2	7.6	5.3	7.8	5.5	8.2	5.8	8.6	6.0
	16.0	6.2	4.3	6.5	4.6	6.8	4.8	7.1	4.9	7.3	5.1	7.5	5.3	7.7	5.4	8.2	5.7	8.6	6.0
	18.0	6.1	4.3	6.4	4.5	6.8	4.7	7.0	4.9	7.2	5.1	7.5	5.2	7.7	5.4	8.1	5.7	8.5	6.0
	20.0	6.1	4.3	6.4	4.5	6.7	4.7	6.9	4.9	7.2	5.0	7.4	5.2	7.6	5.3	8.1	5.6	8.4	5.9
	21.0	6.0	4.2	6.4	4.5	6.7	4.7	6.9	4.8	7.1	5.0	7.4	5.2	7.6	5.3	8.0	5.6	8.4	5.9
	23.0	6.0	4.2	6.3	4.4	6.6	4.6	6.8	4.8	7.1	5.0	7.3	5.1	7.5	5.3	7.9	5.6	8.3	5.8
	25.0	5.9	4.2	6.2	4.4	6.5	4.6	6.8	4.7	7.0	4.9	7.2	5.1	7.4	5.2	7.8	5.5	8.2	5.8
	27.0	5.8	4.1	6.1	4.3	6.5	4.5	6.7	4.7	6.9	4.8	7.1	5.0	7.3	5.1	7.8	5.4	8.1	5.7
	29.0	5.8	4.0	6.1	4.3	6.4	4.5	6.6	4.6	6.8	4.8	7.0	4.9	7.2	5.1	7.6	5.4	8.0	5.6
	31.0	5.7	4.0	6.0	4.2	6.3	4.4	6.5	4.6	6.7	4.7	6.9	4.9	7.1	5.0	7.5	5.3	7.9	5.5
	33.0	5.6	3.9	5.9	4.1	6.2	4.3	6.4	4.5	6.6	4.6	6.8	4.8	7.0	4.9	7.4	5.2	7.8	5.4
	35.0	5.5	3.9	5.8	4.1	6.1	4.3	6.3	4.4	6.5	4.6	6.7	4.7	6.9	4.8	7.3	5.1	7.6	5.4
	37.0	5.4	3.8	5.7	4.0	6.0	4.2	6.2	4.3	6.4	4.5	6.6	4.6	6.8	4.7	7.2	5.0	7.5	5.3
	39.0	5.3	3.7	5.6	3.9	5.8	4.1	6.0	4.2	6.3	4.4	6.4	4.5	6.6	4.6	7.0	4.9	7.3	5.1

TC: Total Capacity [kW]

SHC: Sensible Heat Capacity [kW]

2-8-5. Part load performance

Combination

Indoor unit : RAV-SM566KRT-E

Outdoor unit : RAV-SM564AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	300	1500	300
RATING	5000	1660	5300	1550

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	1820	1450	1160	920	730	560	430	330	330	330
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1660	1330	1060	840	670	510	390	300	300	300
30	Q	5270	4750	4220	3690	3170	2640	2110	1580	1580	1580
	W	1490	1190	950	760	600	460	350	270	270	270
25	Q	5510	4960	4400	3850	3310	2760	2200	1650	1650	1650
	W	1340	1070	860	680	540	410	320	240	240	240
20	Q	5660	5090	4530	3960	3400	2830	2260	1700	1700	1700
	W	1200	960	770	610	480	370	280	220	220	220

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2540	1900	1790	1790
	W	1640	1400	1170	950	750	590	440	330	320	320
10	Q	5750	5170	4600	4020	3450	2880	2300	1720	1630	1630
	W	1580	1350	1130	920	730	560	430	320	310	310
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1550	1320	1100	900	710	550	420	310	300	300
5	Q	4080	3670	3270	2860	2450	2040	1640	1220	1160	1160
	W	1330	1140	950	770	610	480	360	270	260	260
2	Q	3990	3590	3190	2790	2390	2000	1600	1200	1130	1130
	W	1310	1120	930	760	600	470	350	260	250	250
0	Q	3930	3540	3150	2750	2360	1970	1580	1180	1110	1110
	W	1300	1110	930	750	600	460	350	260	250	250
-5	Q	3790	3410	3030	2650	2270	1900	1520	1140	1070	1070
	W	1270	1080	900	730	580	450	340	260	250	250
-7	Q	3730	3360	2990	2610	2240	1870	1500	1120	1060	1060
	W	1260	1070	890	730	580	450	340	250	240	240
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	980	980
	W	1210	1030	860	700	560	430	330	240	230	230
-15	Q	2650	2390	2120	1860	1590	1330	1060	790	750	750
	W	1080	920	770	630	500	390	290	220	210	210

Combination

Indoor unit : RAV-SM806KRT-E

Outdoor unit : RAV-SM804AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	310	1500	310
RATING	6700	2440	7700	2610

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6330	5690	5060	4430	3800	3160	2530	1900	1420	1420
	W	2660	2170	1710	1300	980	740	580	440	340	340
35	Q	6700	6030	5360	4690	4020	3350	2680	2010	1500	1500
	W	2440	1990	1560	1200	900	680	530	400	310	310
30	Q	7080	6370	5670	4960	4250	3540	2830	2130	1590	1590
	W	2220	1810	1420	1090	820	620	480	370	280	280
25	Q	7360	6620	5890	5150	4420	3680	2950	2210	1650	1650
	W	2010	1640	1290	990	740	560	440	330	260	260
20	Q	7470	6720	5980	5230	4480	3740	2990	2240	1670	1670
	W	1810	1470	1160	890	670	500	390	300	230	230

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4560	3640	2730	1820	1780
	W	2840	2380	1950	1570	1220	930	700	510	350	340
10	Q	8260	7440	6610	5780	4960	4130	3310	2470	1650	1610
	W	2710	2270	1860	1490	1170	890	670	480	330	320
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	2610	2190	1790	1440	1120	860	640	470	320	310
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1180	1160
	W	2240	1880	1540	1230	960	740	550	400	280	270
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	2210	1850	1520	1220	950	730	540	390	270	260
0	Q	5710	5140	4570	4000	3430	2860	2290	1710	1140	1110
	W	2190	1830	1500	1200	940	720	540	390	270	260
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	2140	1790	1470	1180	920	700	520	380	260	250
-7	Q	5420	4880	4340	3800	3250	2710	2170	1620	1080	1060
	W	2110	1770	1450	1160	910	690	520	380	260	250
-10	Q	5010	4510	4010	3500	3000	2510	2000	1500	1000	980
	W	2040	1710	1400	1120	880	670	500	360	250	240
-15	Q	3850	3470	3080	2700	2310	1930	1540	1150	770	750
	W	1820	1530	1250	1000	780	600	450	330	220	210

Combination

Indoor unit : RAV-SM566KRT-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3130	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3400	2720	2210	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3130	2500	2030	1640	1310	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2840	2270	1840	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2580	2060	1680	1360	1080	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2330	1860	1510	1220	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM806KRT-E x 2 (Twin)

Outdoor unit : RAV-SM1404AT(J)P-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4710	12800	3800

Q: Capacity in W
W: Power Consumption in W

Cooling

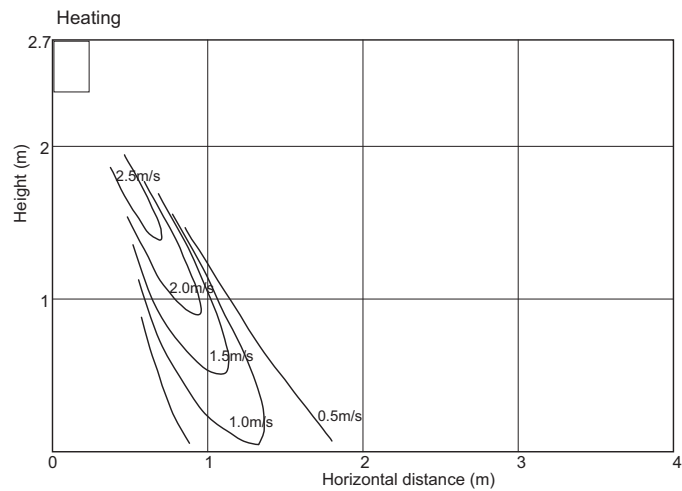
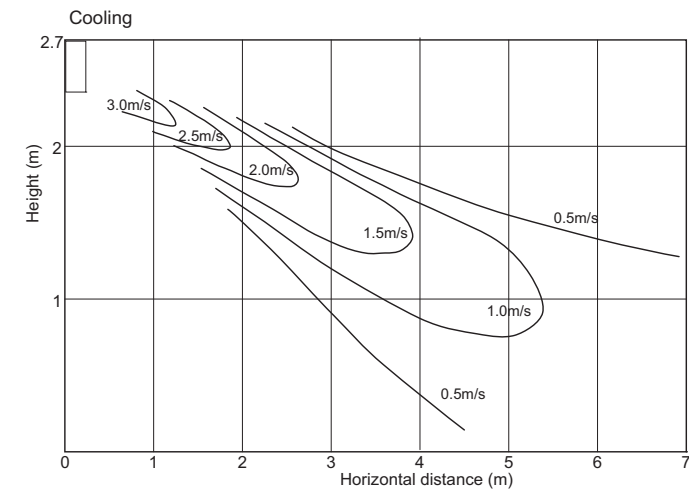
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	5120	4140	3250	2490	1890	1420	1060	780	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4710	3810	2980	2290	1740	1310	980	720	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4270	3450	2710	2080	1580	1190	890	650	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3880	3140	2460	1890	1440	1080	810	600	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3510	2840	2220	1710	1300	980	730	540	450	450

Heating

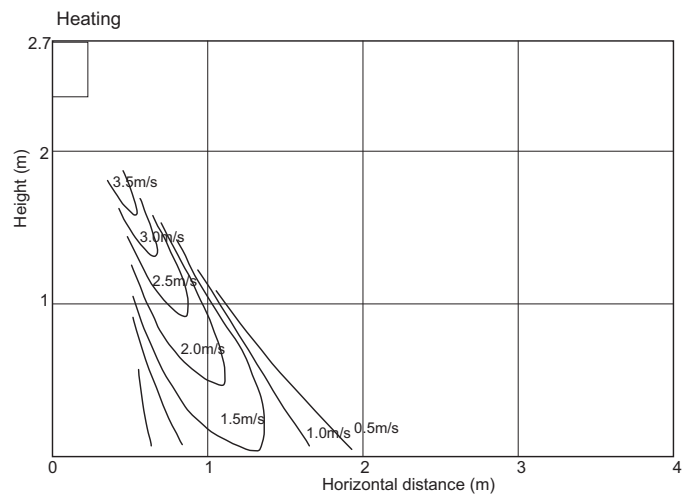
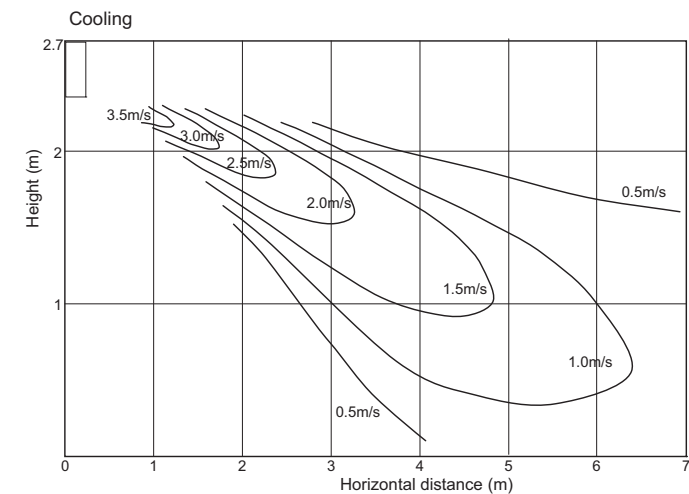
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	4170	3510	2920	2400	1940	1540	1160	830	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3970	3340	2780	2290	1850	1460	1110	790	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3800	3200	2660	2190	1770	1400	1060	760	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3260	2740	2280	1880	1520	1200	910	650	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3220	2710	2250	1850	1500	1190	900	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	3180	2680	2230	1840	1480	1170	890	640	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	3110	2620	2180	1790	1450	1150	870	620	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	3080	2590	2160	1770	1430	1130	860	620	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2960	2490	2080	1710	1380	1090	830	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2650	2230	1860	1530	1230	980	740	530	420	420

2-8-6. Air throw distance chart

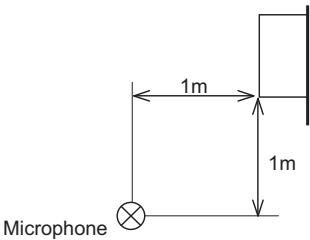
RAV-SM566KRT-E



RAV-SM806KRT-E

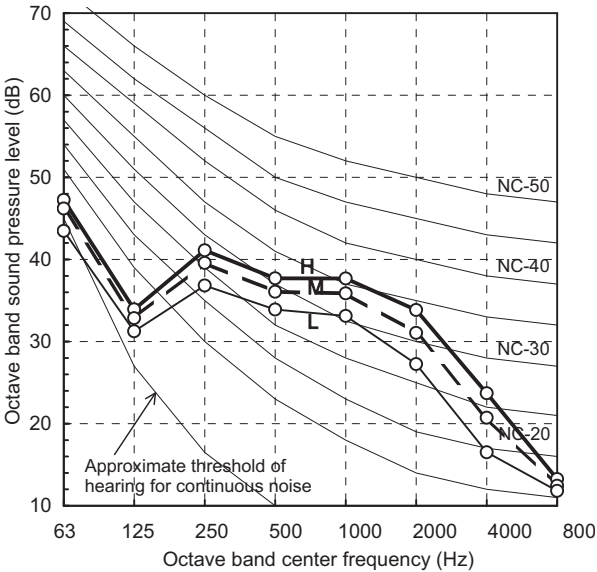


2-8-7. Sound characteristics (NC curve)



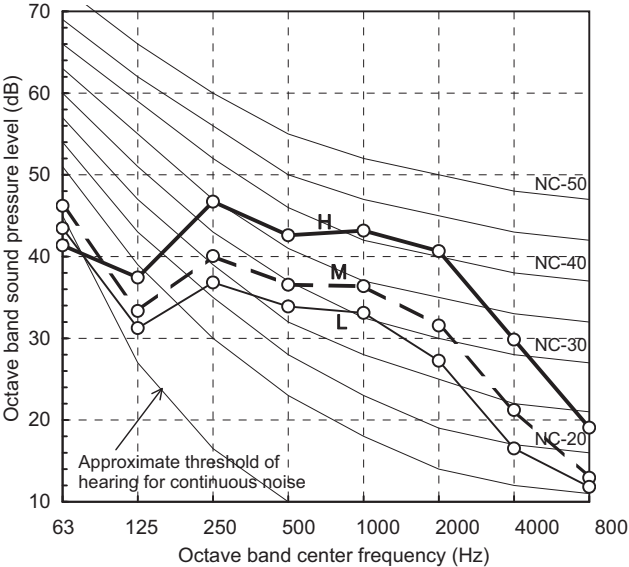
RAV-SM566KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	36



RAV-SM806KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	47	41	36



3. Outdoor Unit

- 3-1. Specifications
- 3-2. Dimension
- 3-3. Wiring diagrams
- 3-4. Refrigerant cycle diagram
- 3-5. Sound characteristics (NC curve)
- 3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

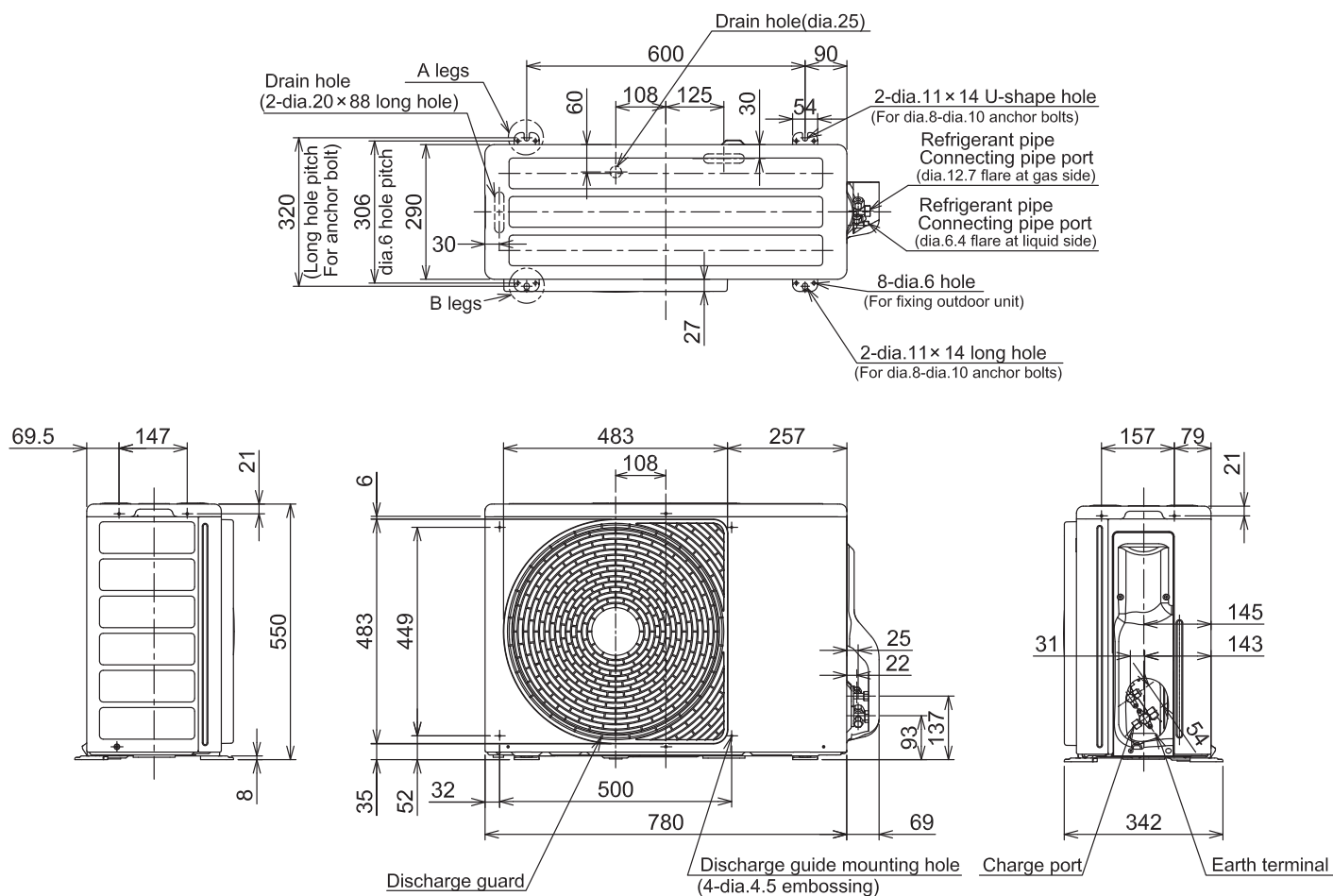
3-1. Specifications

Model	Outdoor unit	RAV-SM	564AT(J)P-E	804AT(J)P-E	1104AT(J)P-E	1404AT(J)P-E
Power supply			1 phase 220V – 240V/50Hz, 1 phase 220V/60Hz (Power exclusive to outdoor is required.)			
Compressor	Type		Hermetic compressor			
	Motor	(kW)	1.1	1.6	2.5	3.0
	Pole		4	4	4	4
Refrigerant charged		(kg)	1.1	1.7	2.8	2.8
Refrigerant control			Pulse motor valve			
Inter connecting pipe	Standard length	(m)	7.5	7.5	7.5	7.5
	Min. length	(m)	5	5	5	5
	Max. total length	(m)	30	30	50	50
	Additional refrigerant charge under long piping connector		20g/m (21m to 30m)	40g/m (21m to 30m)	40g/m (31m to 50m)	40g/m (31m to 50m)
	Height difference	Outdoor lower	(m)	30	30	30
		Outdoor higher	(m)	30	30	30
Outer dimension	Height	(mm)	550	550	890	890
	Width	(mm)	780	780	900	900
	Depth	(mm)	290	290	320	320
Appearance			Silky shade (Muncel 1Y 8.5/0.5)			
Total weight		(kg)	40	44	68	68
Heat exchanger			Finned tube			
Fan unit	Fan		Propeller fan			
	Standard air flow	(m³/min.)	40	45	68	70
	Motor	(W)	43	43	100	100
Connecting pipe	Gas side	(mm)	12.7	15.9	15.9	15.9
	Liquid side	(mm)	6.4	9.5	9.5	9.5
Sound pressure level		Cooling/Heating (dB•A)	46/48	48/52	53/54	54/55
Sound power level		Cooling/Heating (dB•A)	63/65	65/69	70/71	70/71
Outside air temperature, Cooling		(°C)	46 to –15°C			
Outside air temperature, Heating		(°C)	15 to –15°C			

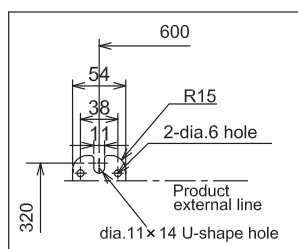
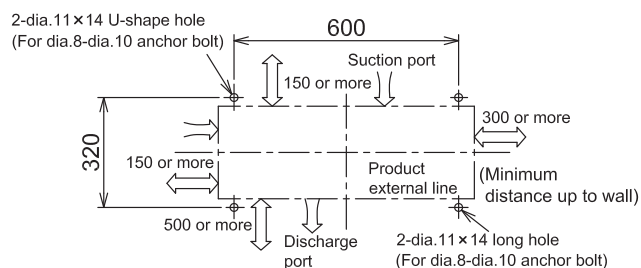
3-2. Dimension

RAV-SM564AT(J)P-E

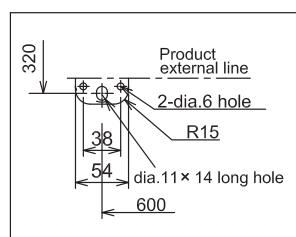
RAV-SM804AT(J)P-E



Space required for service



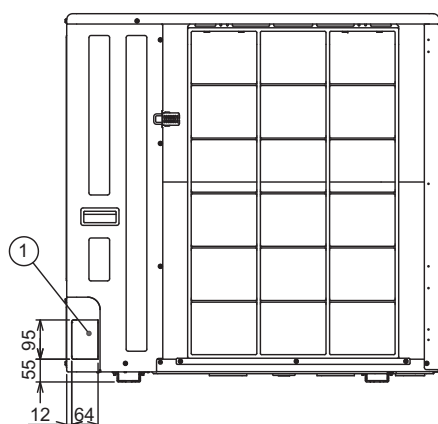
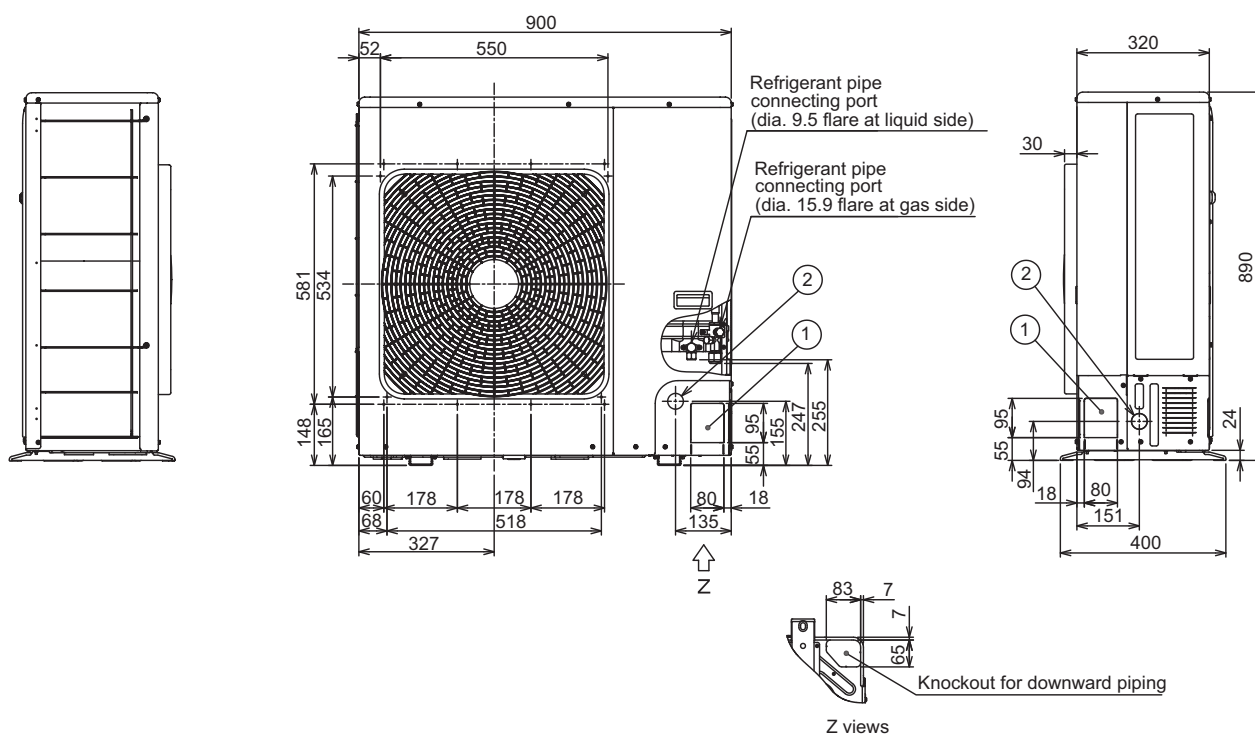
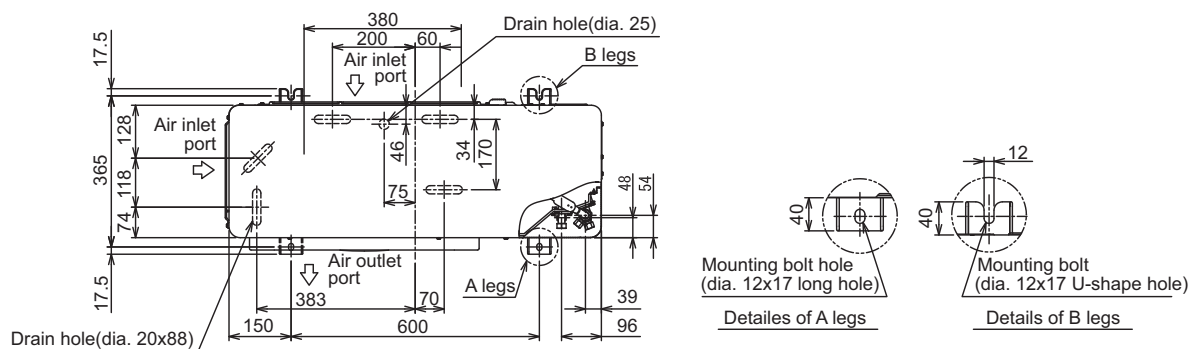
Details of A legs



Details of B legs

(Unit:mm)

RAV-SM1104AT(J)P-E
RAV-SM1404AT(J)P-E



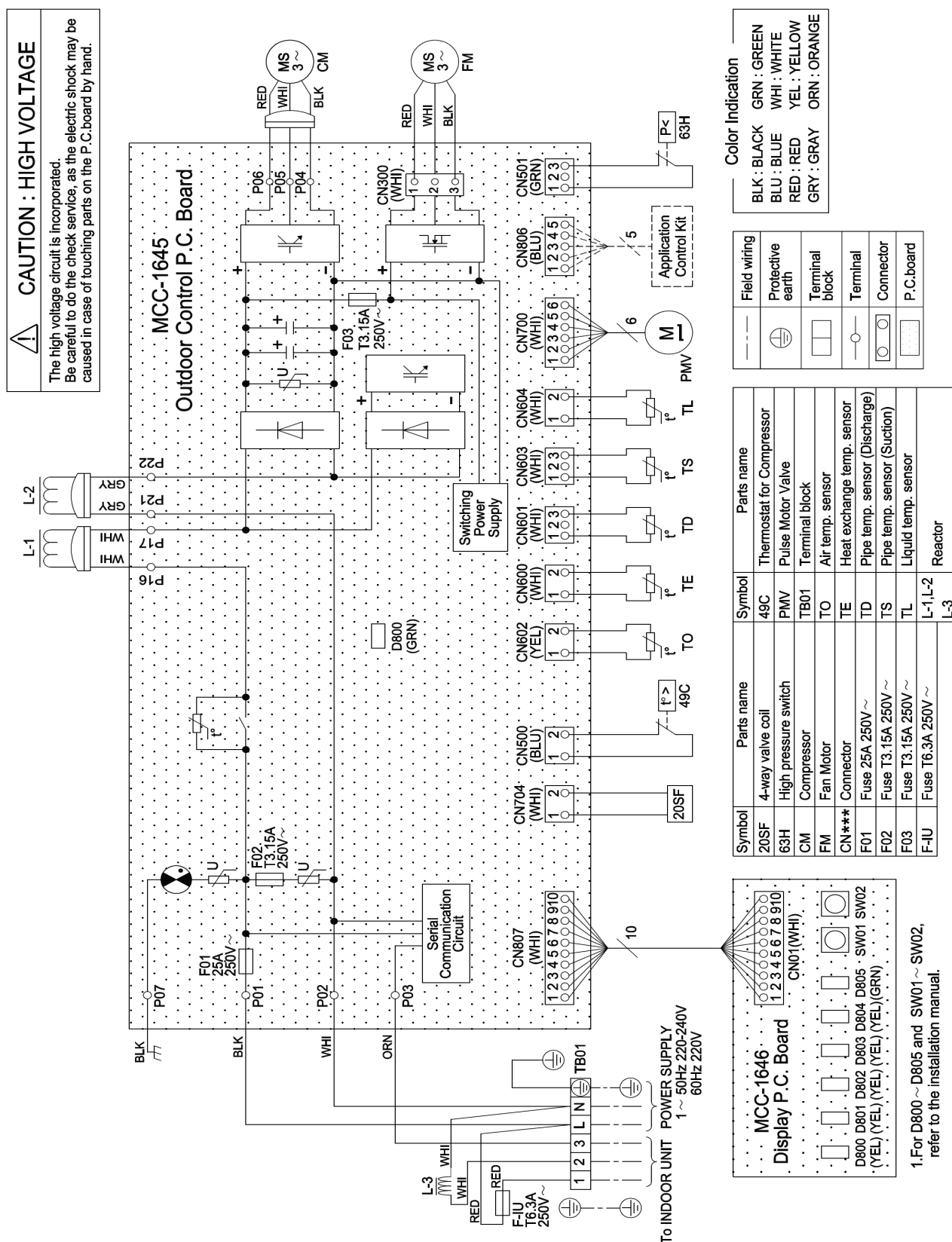
	Name	Note
①	Refrigerant piping hole Indoor/Outdoor unit connecting wire inlet hole	—
②	Power supply inlet hole	dia. 38 Knockout hole

(Unit: mm)

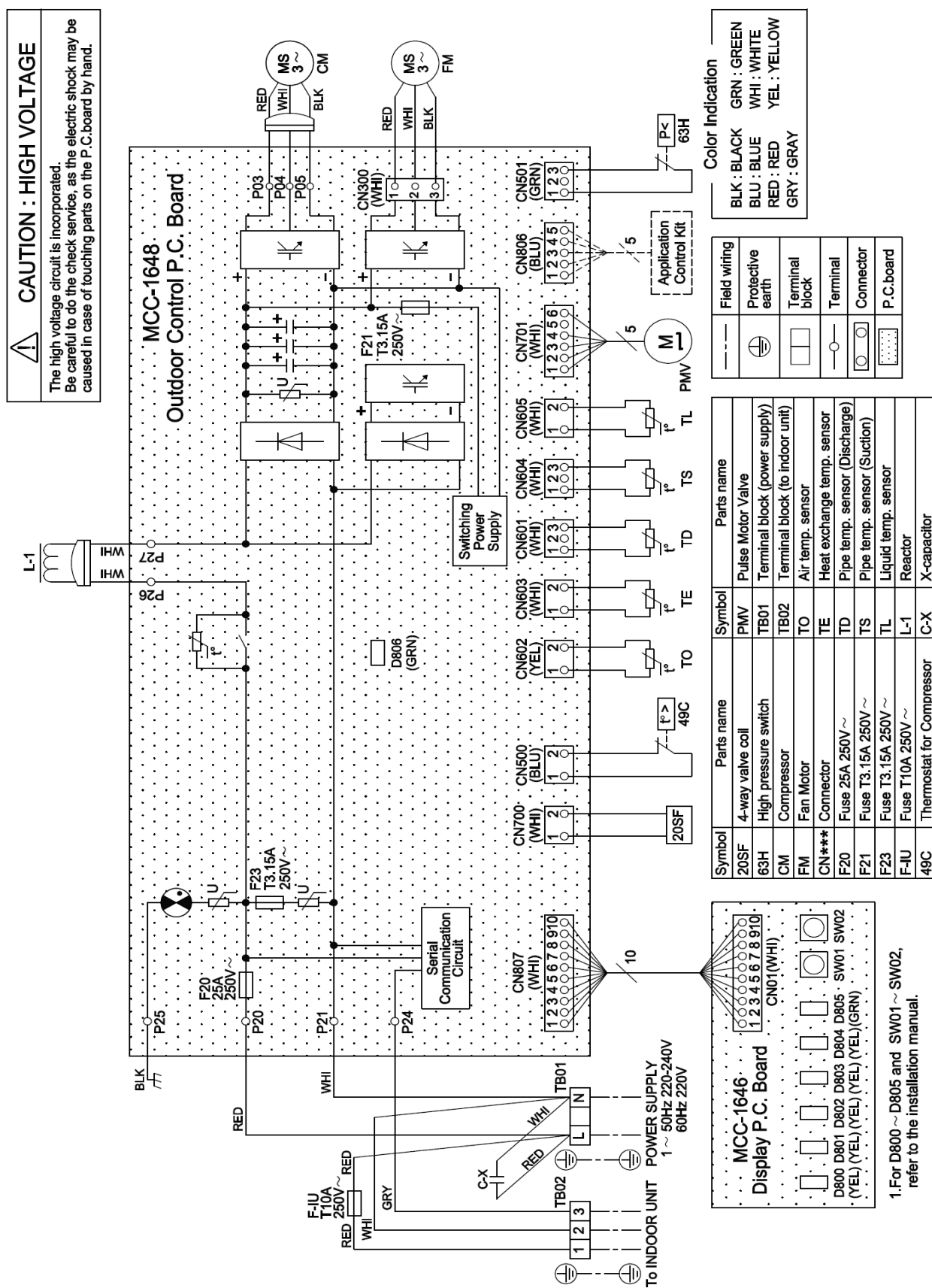
3-3. Wiring diagrams

RAV-SM564AT(J)P-E

RAV-SM804AT(J)P-E

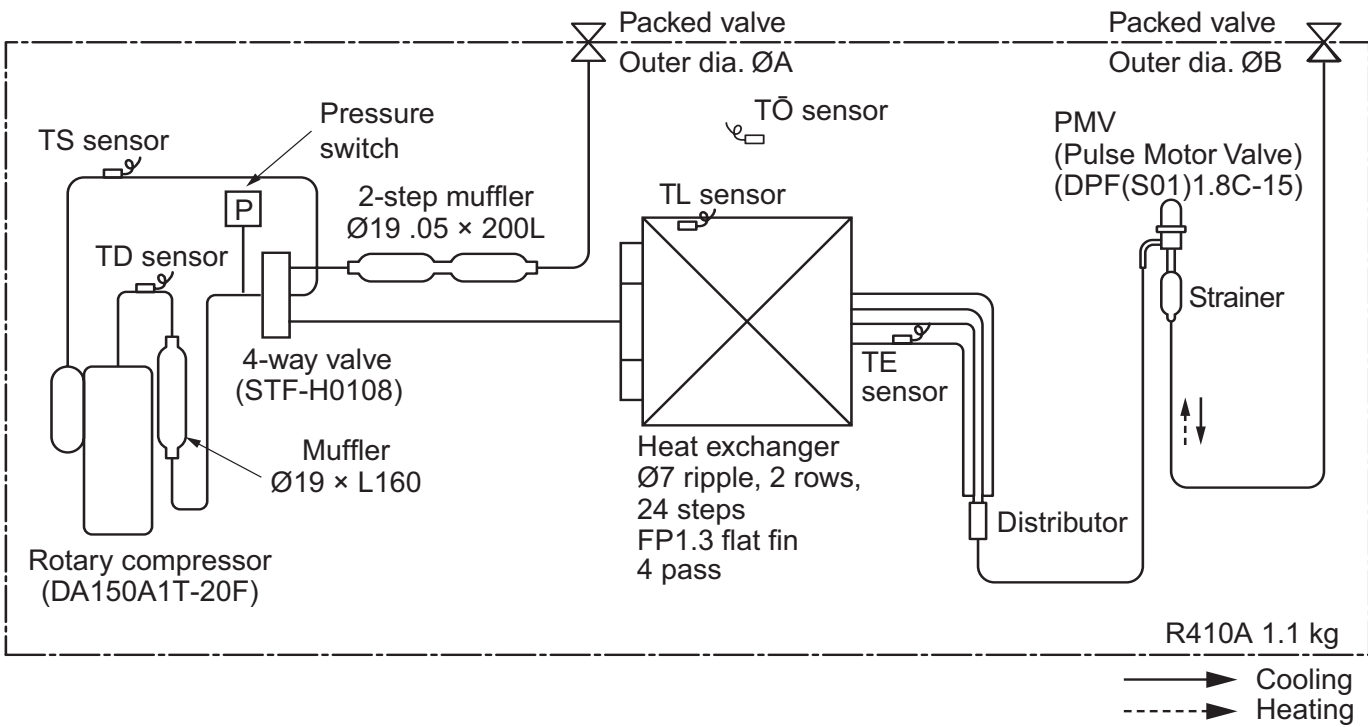


RAV-SM1104AT(J)P-E
RAV-SM1404AT(J)P-E

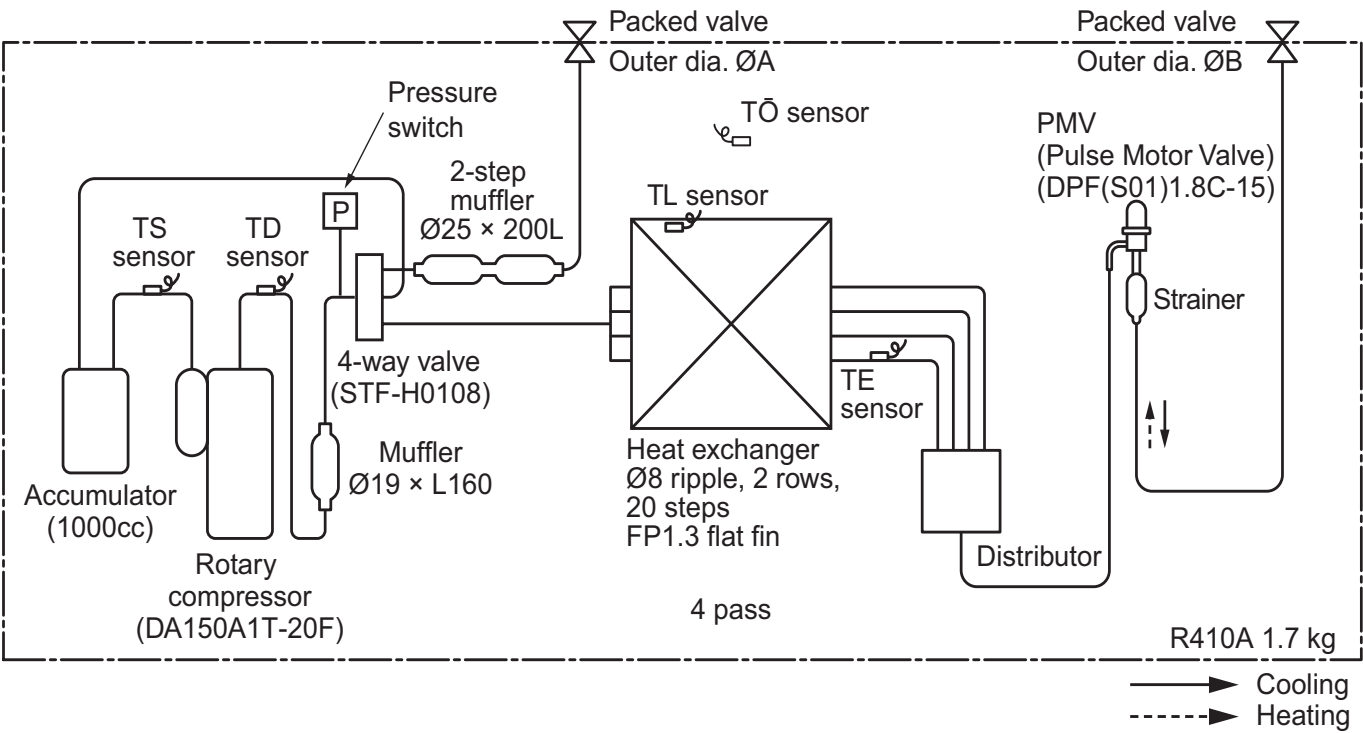


3-4. Refrigerant cycle diagram

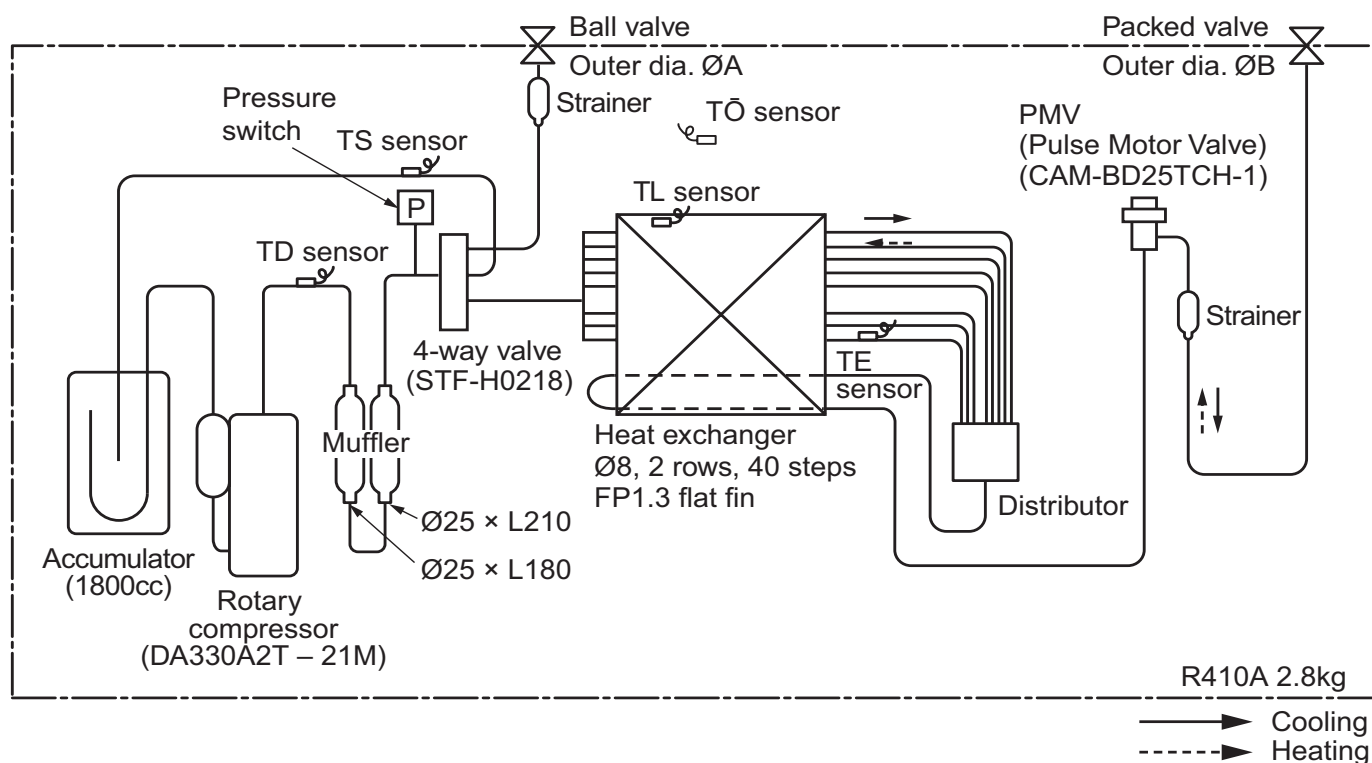
RAV-SM564AT(J)P-E



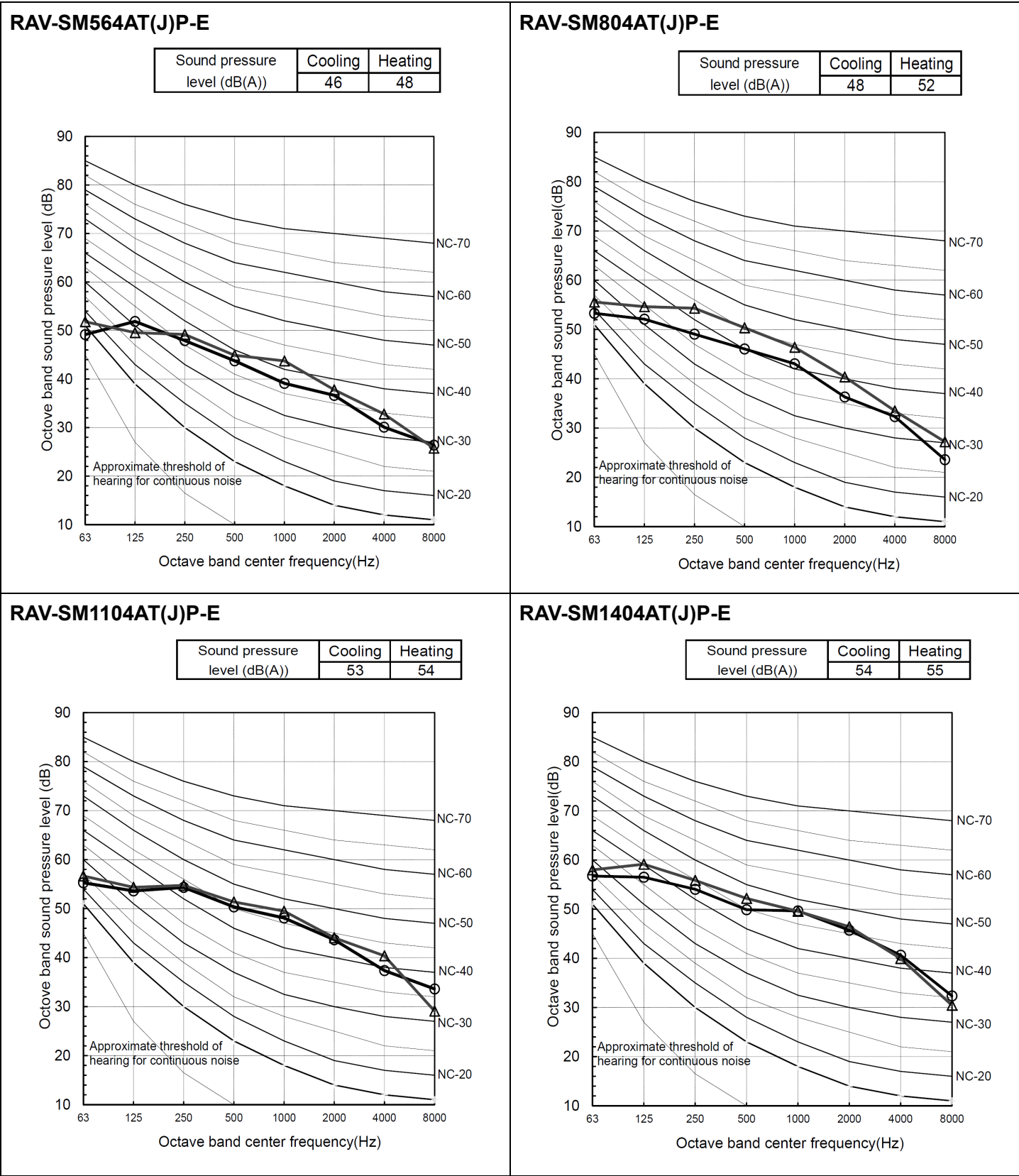
RAV-SM804AT(J)P-E



RAV-SM1104AT(J)P-E
RAV-SM1404AT(J)P-E



3-5. Sound characteristics (NC curve)

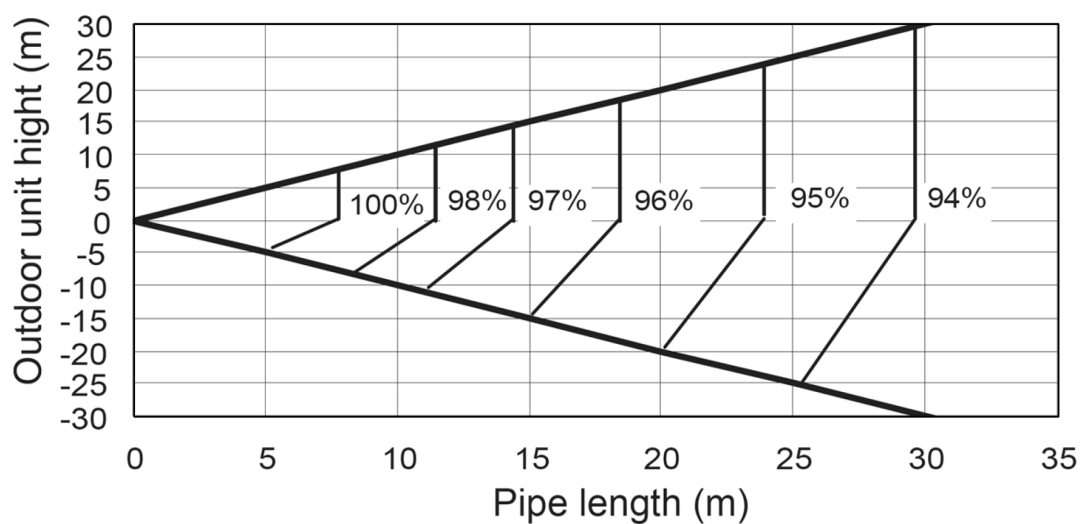


3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

RAV-SM564AT(J)P-E

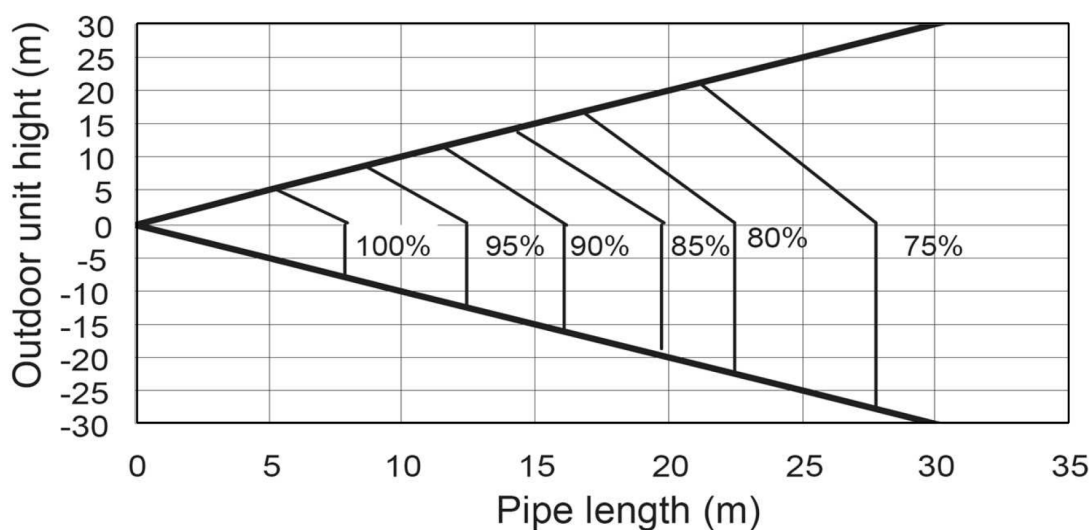
[Cooling]

Cooling performance



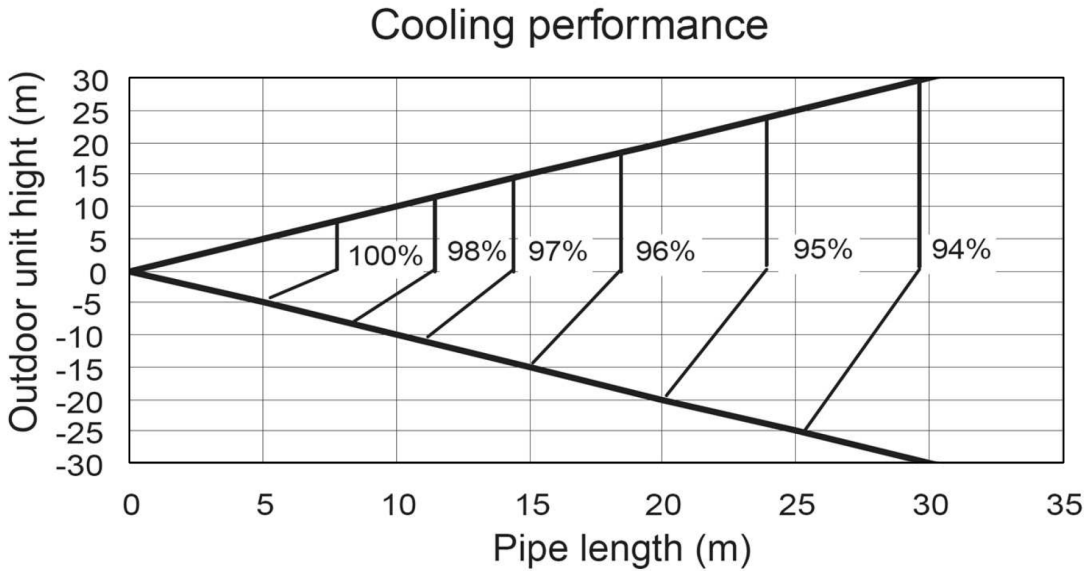
[Heating]

Heating performance

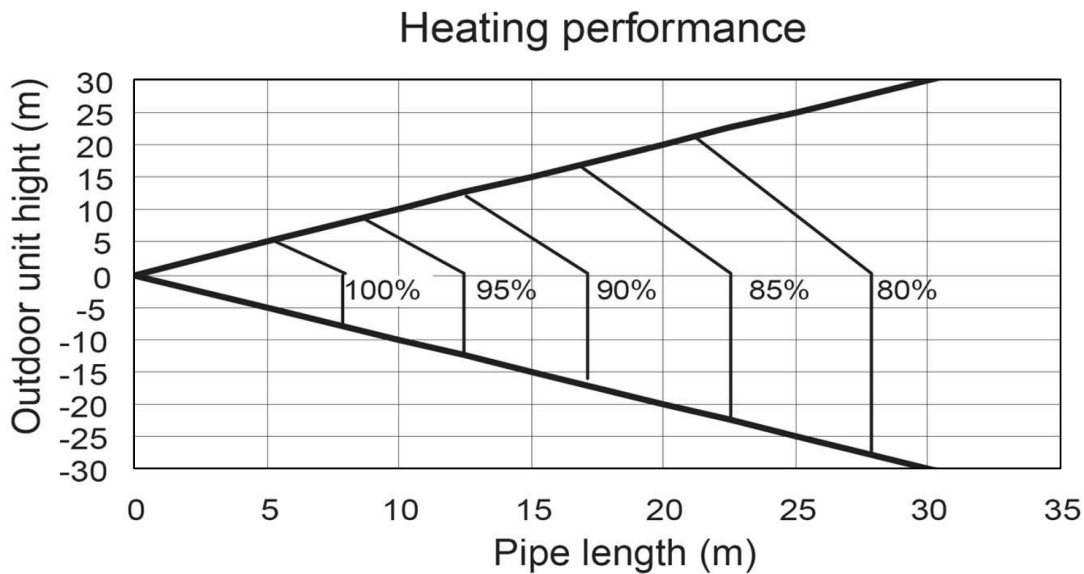


RAV-SM804AT(J)P-E

[Cooling]



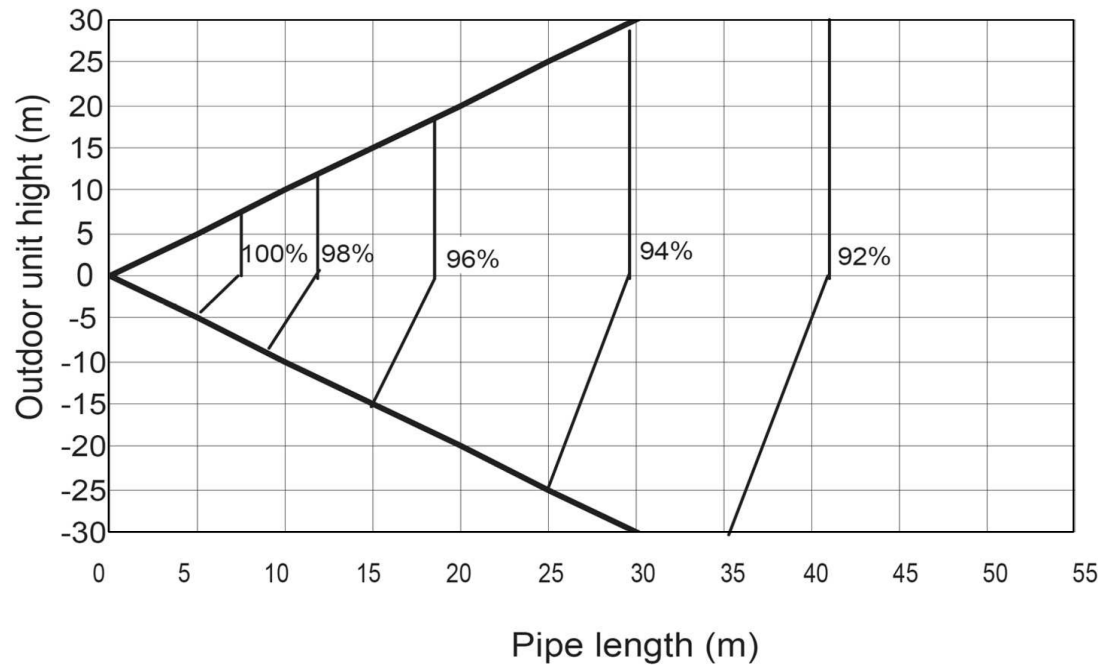
[Heating]



RAV-SM1104AT(J)P-E
RAV-SM1404AT(J)P-E

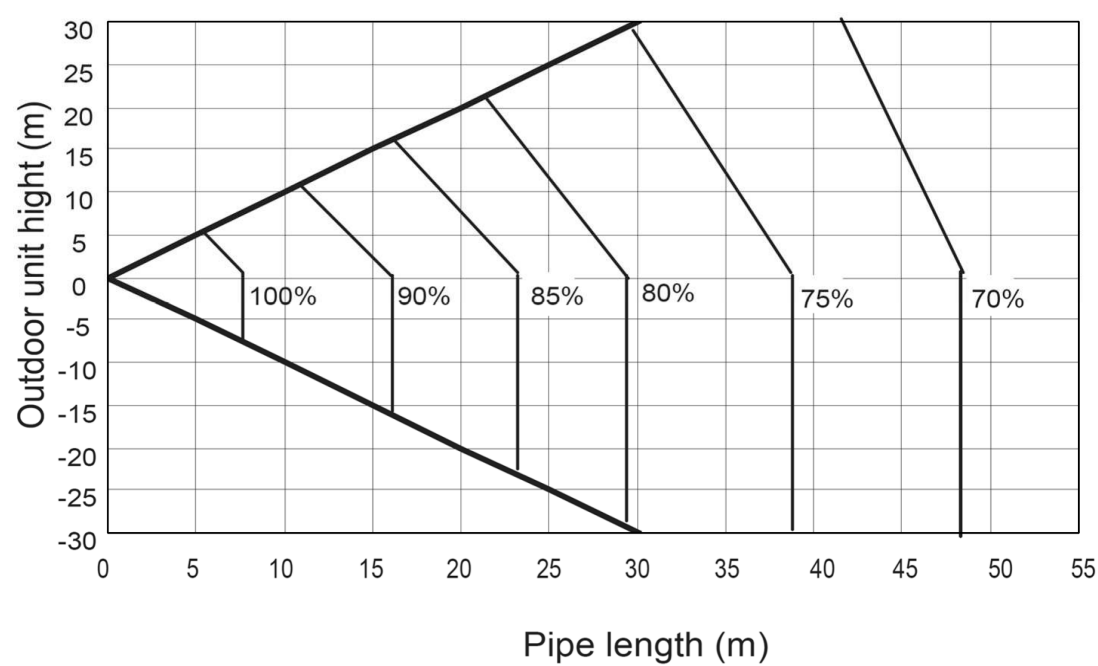
[Cooling]

Cooling performance



[Heating]

Heating performance



4. Option

4.1 Accessories

Indoor unit type	Parts name	Model name	Indoor unit model name
4-way cassette type	Standard panel	RBC-U31PGP(W)-E	RAV-SM**4UTP-E
	MTO straight, white color panel	RBC-U31PGSP(W)-E	
	Standard panel	RBC-U31PGSP(WS)-E	
	Fresh air and filter chamber	TCB-GFC1602UE2	
	Fresh air inlet box	TCB-GB1602UE2	
	Auxiliary fresh air flange	TCB-FF101URE2	
	Spacer for height adjustment	TCB-SP1602UE	
	Air discharge direction kit	TCB-BC1602UE	
Compact 4way cassette type	Panel	RBC-UM11PG(W)E	RAV-SM**4MUT-E
Ducted type	Flange	TCB-SF56C6BE	RAV-SM566BT-E
		TCB-SF80C6BE	RAV-SM806BT-E
		TCB-SF160C6BE	RAV-SM1106BT-E/ SM1404BT-E
Ceiling type	Drain pump kit	TCB-DP31CE	RAV-SM**7CTP-E
	Elbow Piping Kit	TCB-KP13CE	RAV-SM567CTP-E
		TCB-KP23CE	RAV-SM807CTP-E, RAV-SM1107CTP-E, RAV-SM1407CTP-E
	Optional connecting kit	TCB-PCUC1E	RAV-SM**7CTP-E

Parts name	Model name	Outdoor unit model name
Branch-kit	RBC-TWP30E2	RAV-SM1104AT(J)P-E
	RBC-TWP50E2	RAV-SM1404AT(J)P-E

4.2 Controller

Parts name	Model name	Used with
Wired remote controller	RBC-AMS51E	All indoor units
	RBC-AMT32E	All indoor units
Simple wired controller	RBC-AS21E2	All indoor units
Wireless remote controller	RBC-AX31U(W)-E	4-way cassette (4 series) units
	RBC-AX32U(WS)-E	
	RBC-AX22CE2	Ceiling units
	TCB-AX21E2	All indoor units
Remote controller with weekly timer	RBC-SMS41E	All indoor units
Schedule timer	TCB-EXS21TLE	Wired remote controller
ON-OFF controller	TCB-CC163TLE2	Wired remote controller/Central remote controller
Central controller	TCB-SC642TLE2	All indoor units
	BMS-CM1280TLE	All indoor units
1:1 model connection interface	TCB-PCNT30TLE2	4 way cassette type / Compact 4-way cassette type / Ducted type Slim Duct type / Ceiling type / High wall type
Terminal box	TCB-PX30MUE	Used with TCB-PCNT30TLE2
		4-way cassette (4 series) type / Compact 4 way cassette type

Energy Save operation (RBC-AMS51E/RBC-AMT32E/RBC-AMS41E)

The method to control power consumption by limiting the peak of the compressor's electric current.

= To control peak current by limiting **% of the current release

		FCU only function	Combination function with CDU		
			DI series 4		
		Linked with A2A HEX by TCC link*1	Energy save operation (Limit the peak of electric current)	Night Operation by only New Controller *2	Frost Protection (8°C set temp. in heating mode)
4-way cassette type	RAV-SM**4UT-E	×	○	×	×
	RAV-SM**4UTP-E	×	○	×	×
Compact 4-way cassette type	RAV-SM**4MUT-E	OK	○	×	×
Ducted type	RAV-SM**6BT-E	OK	○	×	×
Slim duct type	RAV-SM**4SDT-E	×	○	×	×
Ceiling type	RAV-SM**4CT-E	OK	○	×	×
	RAV-SM**7CTP-E	OK	○	×	×
High Wall type	RAV-SM**6KRT-E	×	○	×	×

*1) A2A HEX: VN-M**HE

*2) New Controller : RBC-AMS51E-ES, RBC-AMS51E-EN

*3) Only 75% :Even if save ratio is set over 50%, the save operation will be 75% automatically

	RBC-AMS51E-ES/EN	RBC-AMT32E/RBC-AMS41E
○	0%, 50%, Option (Only 75%)*3	Option (Only 75%)*3
×	NA	NA

Appendix

List of L/C models Combinations for ErPLot-10***Single split**

Indoor unit type	Indoor unit name	Outdoor unit name	HP	Rated Capacity (kW) Cooling / Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
4-way cassette	RAV-SM564UTP-E	RAV-SM564ATP-E	2	5.0/5.3	6.14	A++	5.0	4.51	A+	4.7
	RAV-SM564UTP-E	RAV-SM564AT(J)P-E	2	5.0/5.3	6.14	A++	5.0	4.51	A+	4.7
	RAV-SM804UTP-E	RAV-SM804ATP-E	3	6.7/7.7	5.81	A+	6.7	4.05	A+	6.8
	RAV-SM804UTP-E	RAV-SM804AT(J)P-E	3	6.7/7.7	5.81	A+	6.7	4.05	A+	6.8
	RAV-SM1104UTP-E	RAV-SM1104ATP-E	4	10.0/11.2	5.87	A+	10.0	4.28	A+	8.0
	RAV-SM1104UTP-E	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.87	A+	10.0	4.28	A+	8.0
	RAV-SM1404UTP-E	RAV-SM1404ATP-E	5	12.0/12.8	5.36	A	12.0	4.19	A+	8.0
	RAV-SM1404UTP-E	RAV-SM1404AT(J)P-E	5	12.0/12.8	5.36	A	12.0	4.19	A+	8.0
Compact 4-way cassette	RAV-SM564MUT-E	RAV-SM564AT(J)P-E	2	5.0/5.3	5.48	A	5.0	4.16	A+	4.4
	RAV-SM564MUT-E	RAV-SM564AT(J)P-E	2	5.0/5.3	5.48	A	5.0	4.16	A+	4.4
Ducted	RAV-SM566BT-E	RAV-SM564ATP-E	2	5.0/5.3	4.80	B	5.0	3.98	A	4.4
	RAV-SM566BT-E	RAV-SM564AT(J)P-E	2	5.0/5.3	4.80	B	5.0	3.98	A	4.4
	RAV-SM806BT-E	RAV-SM804ATP-E	3	6.7/7.7	5.04	B	6.7	3.83	A+	6.7
	RAV-SM806BT-E	RAV-SM804AT(J)P-E	3	6.7/7.7	5.04	B	6.7	3.83	A+	6.7
	RAV-SM1106BT-E	RAV-SM1104ATP-E	4	10.0/11.2	5.03	B	10.0	4.14	A+	7.6
	RAV-SM1106BT-E	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.03	B	10.0	4.14	A+	7.6
	RAV-SM1406BT-E	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-
	RAV-SM1406BT-E	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-
Slim duct	RAV-SM564SDT-E	RAV-SM564ATP-E	2	5.0/5.3	5.06	B	5.0	4.06	A+	4.4
	RAV-SM564SDT-E	RAV-SM564AT(J)P-E	2	5.0/5.3	5.06	B	5.0	4.06	A+	4.4
Ceiling	RAV-SM567CTP-E	RAV-SM564ATP-E	2	5.0/5.3	5.41	A	5.0	4.21	A+	4.7
	RAV-SM567CTP-E	RAV-SM564AT(J)P-E	2	5.0/5.3	5.41	A	5.0	4.21	A+	4.7
	RAV-SM807CTP-E	RAV-SM804ATP-E	3	6.9/7.7	5.62	A+	6.9	4.01	A+	6.8
	RAV-SM807CTP-E	RAV-SM804AT(J)P-E	3	6.9/7.7	5.62	A+	6.9	4.01	A+	6.8
	RAV-SM1107CTP-E	RAV-SM1104ATP-E	4	10.0/11.2	5.79	A+	10.0	4.27	A+	7.6
	RAV-SM1107CTP-E	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.79	A+	10.0	4.27	A+	7.6
	RAV-SM1407CTP-E	RAV-SM1404ATP-E	5	12.1/12.8	-	-	-	-	-	-
	RAV-SM1407CTP-E	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-
High wall	RAV-SM566KRT-E	RAV-SM564ATP-E	2	5.0/5.3	5.77	A+	5.0	4.00	A+	4.4
	RAV-SM566KRT-E	RAV-SM564AT(J)P-E	2	5.0/5.3	5.77	A+	5.0	4.00	A+	4.4
	RAV-SM806KRT-E	RAV-SM804ATP-E	3	6.7/7.7	5.62	A+	6.7	4.01	A+	6.3
	RAV-SM806KRT-E	RAV-SM804AT(J)P-E	3	6.7/7.7	5.62	A+	6.7	4.01	A+	6.3

Twin split

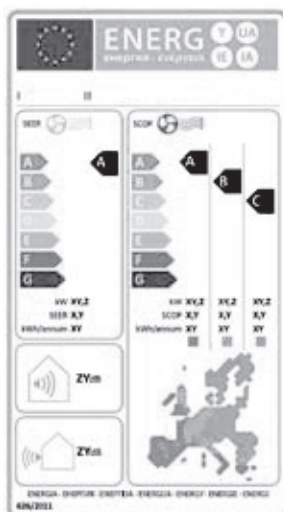
Indoor unit type	Indoor unit name	Outdoor unit name	HP	Rated Capacity (kW) Cooling / Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
4-way cassette	RAV-SM564UTP-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.72	A+	10.0	4.28	A+	8.0
	RAV-SM564UTP-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.72	A+	10.0	4.28	A+	8.0
	RAV-SM804UTP-E*2	RAV-SM1404AT(J)P-E	5	12.0/12.8	5.25	A	12.0	4.19	A+	8.0
	RAV-SM804UTP-E*2	RAV-SM1404ATP-E	5	12.0/12.8	5.25	A	12.0	4.19	A+	8.0
Compact 4-way cassette	RAV-SM564MUT-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.04	B	10.0	4.17	A+	7.6
	RAV-SM564MUT-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.04	B	10.0	4.17	A+	7.6
Slim duct	RAV-SM564SDT-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.09	B	10.0	4.16	A+	7.6
	RAV-SM564SDT-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.09	B	10.0	4.16	A+	7.6
Ducted	RAV-SM566BT-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.00	B	10.0	4.14	A+	7.6
	RAV-SM566BT-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.00	B	10.0	4.14	A+	7.6
	RAV-SM806BT-E*2	RAV-SM1404ATP-E	5	12.1/12.8	-	-	-	-	-	-
	RAV-SM806BT-E*2	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-
Ceiling	RAV-SM567CTP-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.70	A+	10.0	4.27	A+	7.6
	RAV-SM567CTP-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.70	A+	10.0	4.27	A+	7.6
	RAV-SM807CTP-E*2	RAV-SM1404ATP-E	5	12.1/12.8	-	-	-	-	-	-
	RAV-SM807CTP-E*2	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-
High wall	RAV-SM566KRT-E*2	RAV-SM1104ATP-E	4	10.0/11.2	5.13	A	10.0	4.18	A+	7.6
	RAV-SM566KRT-E*2	RAV-SM1104AT(J)P-E	4	10.0/11.2	5.13	A	10.0	4.18	A+	7.6
	RAV-SM806KRT-E*2	RAV-SM1404ATP-E	5	12.1/12.8	-	-	-	-	-	-
	RAV-SM806KRT-E*2	RAV-SM1404AT(J)P-E	5	12.1/12.8	-	-	-	-	-	-

* ErP Lot-10

In Europe the nominal efficiency method is becoming outdated.

The Seasonal Energy Efficiency Ratio (SEER) and the Seasonal Coefficient Of Performance (SCOP) will be introduced. The SEER/SCOP measuring method is more reliable and better represent the performance of the units during the year. Instead of a single reference temperature condition, with this new method the air conditioning systems are evaluated at different operating conditions (partial load); where Toshiba inverter units are known for being extremely efficient.

The SEER/SCOP measurement applies only to air conditioners in single or multi split combinations with a cooling capacity below 12kW.



Energy Efficiency Class	SEER	SCOP
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E	3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F	2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

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